CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, July 26, 1906.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File 27
List of Contracts Pending 27
Railways 28
Electric Railways 28
Light and Power Plants 29
Bridges 29
Buildings 30
Water Supply and Irrigation 30
Sewerage 31
Garbage Disposal 31
Streets and Roads 31
Manufacturing Plants 32
Miscellaneous Contracts 32
Contract Prices 33
CIVIL SERVICE EXAMINATIONS 33
TRADE PUBLICATIONS 33
PROPOSALS 34

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
July				
28	Power-house	Charleston, S. C.	S.	7-12
*30	Sewers	Morris, Minn	P. & S.	7-12
*30	Lighting fixtures	Ft. Monroe, Va.	S.	7- 5
31	Gravel road	Toms River, N. J.	P.	7-26
*31	Canal	Browning, Mont	S.	6- 7
Aug.				
1	Sewers, drain	Savanna, Ill	S.	7-26
*2	Reservoir	Altoona, Pa	S. & B. S.	6-21
4	Power plant mchny	Norfolk, Va.	S.	7-12
4	Chimney	New Orleans, La	S.	7-12
7	Pumping plant	Billings, Mont.	P., S. & B. S.	7- 5
*8	Macadam	Camden, N. J	P., S. & B. S.	7-19
*8	Pipe, etc.	Philadelphia, Pa	S. & B. S.	7-26
*8	Dredging	Boston, Mass.	P. & S.	7-26
9	Paving	Memphis, Tenn	P., S. & B. S.	7-26
13	Bridge	Battleford, Sask	P.	7-19
*17	Sewers	Portland, Ore.	P., S. & B. S.	7-26
*23	Grading, steel bars	Billings, Mont.	P. & S.	7-12
*30	Boilers and Chimney	Galveston, Tex.	S. & B. S.	7-26
*30	Canals and ditches	Williston, N. Dak.	P. & S.	7-12
*30	Tunnel	Salt Lake City, Utah.	P., S. & B. S.	6-21
Sept.				
15	Hotel bldg.	Manila, P. I.	S.	3-29

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	On file.	See issue.
July 26	Power-house, Rochelle, Ill. Advertised, Eng. News, July 19.			July 19
July 26	Electrical work, New York, N. Y.			July 19
July 26	Heating, Portland, Ore			July 12
July 28	Light plant, Hyattsville, Md. Advertised, Eng. News, July 19.			July 19
July 28	Light plant, Hyattsville, Md.			July 26
July 30	Lighting fixtures, Fortress Monroe, Va. Advertised, Eng. News, July 5 to 26.			July 5
July 30	Power plant, Idaho Falls, Idaho. Advertised, Eng. News, July 5 and 12.			July 5
July 31	Boilers, etc., Kansas City, Mo.			July 26
July 31	Power plant, Oakland, Cal.			July 26
Aug. 1	Lighting plant, Glasgow, Mont. Advertised, Eng. News, July 12 to 26.			July 12
Aug. 2	Light plant, Lowellville, Ohio			July 19
Aug. 4	Heating plant, Stonebluff, Ind			July 26
Aug. 10	Lights, Mobile, Ala			July 26
Aug. 14	Elec. apparatus, Williston, N. Dak. Advertised, Eng. News, July 12 to 26.			July 12
Sept. 10	Electric machinery, Williston, N. Dak. Advertised, Eng. News, July 19 to Aug. 16.			July 19
Sept. 12	Transformer plant, Chicago, Ill.			July 26
Sept 18	Lighting, Pottsville, Pa			July 12

BRIDGES.

July 26	Steel bridge, Sacramento, Cal			July 26
July 26	Bridge, Jersey City, N. J.			July 26
July 27	Concrete bridge, Lemont, Ill			July 26
July 28	Bridge, Varney, Ont			July 19
July 28	Two bridges, Chandler, Okla			July 19
July 28	Two bridges, New Philadelphia, Ohio			July 19
July 30	Bridge work, Sydney, Ohio			July 19
July 30	Superstructure, Cincinnati, Ohio			July 12
July 30	Bridge repairs, New Orleans, La			July 26
Aug. 1	Iron bridge, Tuscarora, Ont			July 26
Aug. 1	Draw, Gardiner, Me			July 12
Aug. 1	Bridge, Glenwood Springs, Colo			July 19
Aug. 2	Two bridges, Indianapolis, Ind			July 26
Aug. 4	Culverts, Cleveland, Ohio			July 26
Aug. 4	Bridge approach, Lyons, Iowa. Advertised, Eng. News, July 19 to Aug. 9.			July 19
Aug. 6	Abutments, Jefferson, Ohio			July 19
Aug. 6	Two bridges, Tipton, Ind			July 19
Aug. 6	Two bridges, Conconully, Wash			July 19
Aug. 6	Concrete arches, Rushville, Ind			July 26
Aug. 6	Superstructure, Moncton, N. B			July 26
Aug. 6	Bridge, Danville, Ind			July 26
Aug. 6	Bridge repairs, Lexington, Miss			July 26
Aug. 7	Bridge, Newton, Mass			July 26
Aug. 7	Three bridges, Vincennes, Ind			July 19
Aug. 10	Viaduct, Covington, Ind			July 26
Aug. 11	Reconstruction, Fortress Monroe, Va. Advertised, Eng. News, July 19 and 26.			July 19
Aug. 13	Two bridges, Topeka, Kans			July 12
Aug. 13	Piers and abutments, Regina, Sask			July 26
Aug. 13	Superstructure, Zanesville, Ohio			July 26
Aug. 17	Three bridges, Portsmouth, Ohio			July 26
No date	Bridge plans, Paducah, Ky. Advertised, Eng. News, July 26 and Aug. 2.			July 26

BUILDINGS.

July 30	Reconstruction, Albany, N. Y. Advertised, Eng. News, July 12 and 19.			July 12
July 30	Structural work, Elmira, N. Y. Advertised, Eng. News, July 19 and 26.			July 19
July 30	Alterations, Albany, N. Y			July 19
July 30	Schools, New York, N. Y			July 26
Aug. 1	Bank, Washington, D. C			July 26
Aug. 1	Library, Denver, Colo			July 19
Aug. 6	Employees' building, Rome, N. Y. Advertised, Eng. News, July 12 to 26.			July 12
Aug 7	Six buildings, Jackson, Miss			July 12
Aug. 9	Cleaning system, Wheeling, W. Va. Advertised, Eng. News, July 26 and Aug. 2.			July 26
Aug. 10	College building, Ames, Ia			July 19
Aug. 11	Bldg. & brick chimney, Charleston, S. C.			July 26
Aug. 15	Club-house, Washington, D. C			July 26
Aug. 10	Building, Boston, Mass			July 26
Aug. 25	Screen doors, Dodge, Ga. Advertised, Eng. News, July 26 to Aug. 16.			July 26
Aug. 27	Court-house, Gallatin, Mo			July 19
Sept. 15	Hotel, Manila, P. I			Mar. 29

WATER SUPPLY AND IRRIGATION.

July 26	Reservoir, Rochelle, Ill. Advertised, Eng. News, July 19.			July 19
July 26	Laying wood pipe, Macleod, Alta			July 19
July 26	Water-works material, Jackson, Ga			July 12
July 28	Machinery, Perrysburg, Ohio. Advertised, Eng. News, July 12 and 19.			July 12
July 31	Extension, New Orleans, La			July 19
July 31	Water tower, etc., Norfolk, Va			July 19
Aug. 1	Cast-iron pipe, Vancouver, B. C			July 19
Aug. 1	Pumping engine, Milwaukee, Wis			July 19
Aug. 1	Filter plant, Philadelphia, Pa			July 12
Aug. 1	Filter plant, Philadelphia, Pa. Advertised, Eng. News, July 12 to 26.			July 12
Aug. 1	Water-works, Glasgow, Mont. Advertised, Eng. News, July 12 to 26.			July 12
Aug. 1	Water-works, Glasgow, Mont			June 21
Aug. 1	Artesian wells, Famagusta, Egypt. Advertised, Eng. News, May 31 to June 21.			May 31
Aug. 2	Storage reservoir, Altoona, Pa. Advertised, Eng. News, June 21 to July 19.			June 21
Aug. 2	Water-works, Kingsley, Mich. Advertised, Eng. News, July 19.			July 19
Aug. 2	Pipe line, Los Angeles, Cal			July 26
Aug. 2	Pipe, Gillett, Wis			July 26
Aug. 2	Water-works, Lowellville, Ohio			July 26
Aug. 3	Inflow, Wellsville, Ohio. Advertised, Eng. News, July 26 and Aug. 2.			July 26
Aug. 3	Water-works, Garrettsville, Ohio			July 26
Aug. 4	Pipe, Washington, D. C. Advertised, Eng. News, July 19 and 26.			July 19
Aug. 6	Pumping engines, Orange, N. J. Advertised, Eng. News, July 12.			July 12
Aug. 7	Pumping plant, Billings, Mont. Advertised, Eng. News, June 21 to July 5.			June 21
Aug. 7	Supplies, Aurora, Minn			July 26
Aug. 7	Pumping station, San Jose, Cal			July 26
Aug. 8	Extension, Fort Terry, N. Y			July 26
Aug. 8	Pipe, etc., Philadelphia, Pa. Advertised, Eng. News, July 26 and Aug. 2.			July 26
Aug. 9	Pump-house, etc., Fort Snelling, Minn			July 26
Aug. 13	Filter reservoir, Wilmington, Del. Advertised, Eng. News, July 26 and Aug. 2.			July 26
Aug. 14	Water-works, Saskatoon, Sask			July 26
Aug. 14	Pumps, Portsmouth, N. H			July 26
Aug. 30	Boilers & chimney, Galveston, Tex. Advertised, Eng. News, July 26 and Aug. 2.			July 26
Sept. 4	Water-works, Malta, Ohio			July 26
Sept. 5	Two reservoirs, New Orleans, La. Advertised, Eng. News, June 21 to Aug. 30.			June 21

SEWERAGE.

July 26	Sewers, New Bremen, Ohio			July 12
July 26	Sewers, Cincinnati, Ohio			July 12
July 26	Sewers, New York, N. Y			July 19
July 26	Sewer, Mount Holly, N. J			July 19
July 27	Sewer, Iowa City, Iowa			July 19
July 28	Sewer system, Des Moines, Iowa			July 19
July 30	Sewage pumps, Sacramento, Cal			July 19
July 30	Sewer, Morris, Minn			July 19
July 30	Sewers, South Omaha, Nebr. Advertised, Eng. News, July 12 and 19.			July 12
July 30	Sewers, St. Paul, Minn			July 26
July 30	Sewers, Tuckahoe, N. Y			July 26
Aug. 2	Sewers, Ogden, Utah			July 26
Aug. 2	Sewers, Carroll, Iowa			July 26
Aug. 2	Sewers and drains, Cincinnati, Ohio			July 19
Aug. 3	Sewers, Malden, Mass. Advertised, Eng. News, July 12.			July 12
Aug. 4	Sewers, Ogden, Utah			July 12
Aug. 6	Sewers, Washington, D. C. Advertised, Eng. News, July 19 and 26.			July 19
Aug. 6	Sewer, Evansville, Wyo			July 19
Aug. 6	Sewer, Grand Forks, N. Dak			July 19
Aug. 7	Sewers, Escanaba, Mich			July 26
Aug. 9	Sewer, Claremore, Ind. T			July 26
Aug. 10	Sewers, Janesville, Wis			July 26
Aug. 11	Sewers, Seneca Falls, N. Y. Advertised, Eng. News, July 19 and 26.			July 19
Aug. 17	Sewer, Portland, Ore. Advertised, Eng. News, July 26 to Aug. 9.			July 26
Sept. 7	Sewer gates, Manila, P. I. Advertised, Eng. News, July 5 to Aug. 23.			July 5

STREETS AND ROADS.

July 27	Roads, Pittsburg, Pa			July 12
July 27	Walks, etc., Fortress Monroe, Va. Advertised, Eng. News, June 28 to July 19.			June 28
July 27	Sidewalks, North Toronto, Ont			July 26
July 27	Paving, Troy, N. Y			July 26
July 28	Grading streets, Janesville, Wis			July 19
July 30	Paving, etc., Cincinnati, Ohio			July 12
July 30	Grading, etc., St. Paul, Minn			July 26
July 30	Grading, etc., Union Hill, N. J			July 26
July 31	Gravel road, Toms River, N. J			July 26
July 31	Paving, Cohoes, N. Y. Advertised, Eng. News, July 26.			July 26
July 31	Macadam, Haverhill, N. H			July 19
July 31	Brick paving, Pottsville, Pa			July 19
Aug. 1	Paving, Peekskill, N. Y. Advertised, Eng. News, July 5.			July 5
Aug. 1	Wagon road, Denver, Colo			July 19
Aug. 1	Gravel road, Atlantic City, N. J			July 19
Aug. 1	Paving, Findlay, Ohio			July 19
Aug. 1	State road, Harrisburg, Pa			July 19
Aug. 1	Paving, New York, N. Y			July 26
Aug. 2	Grading, etc., New York, N. Y			July 26
Aug. 3	Paving, Washington, D. C. Advertised, Eng. News, July 26.			July 26
Aug. 3	Paving, Buffalo, N. Y			July 26
Aug. 3	Rubble stone paving, Petersburg, Va			July 19
Aug. 3	Brick paving, Cincinnati, Ohio			July 19
Aug. 3	Paving, Petersburg, Va			July 12
Aug. 4	Road work, Ebensburg, Pa. Advertised, Eng. News, July 26 and Aug. 2.			July 12
Aug. 6	Sidewalks, etc., Fort Totten, N. Y. Advertised, Eng. News, July 26 and Aug. 2.			July 26
Aug. 6	Paving, etc., New York, N. Y			July 26
Aug. 6	Gravel road, Brookfield, Ind			July 26
Aug. 6	Gravel road, Columbus, Ind			July 26
Aug. 6	Gravel road, Jasper, Ind			July 19
Aug. 6	Gravel roads, Bloomfield, Ind			July 19
Aug. 6	Paving, St. Paul, Minn			July 19
Aug. 6	Gravel roads, Crownpoint, Ind			July 19
Aug. 6	Grading and paving, Ashland, Ohio			July 19
Aug. 7	Gravel roads, Brazil, Ind			July 19
Aug. 7	Gravel roads, Bedford, Ind			July 19
Aug. 7	Gravel roads, Vincennes, Ind			July 19
Aug. 7	Paving, etc., Salisbury, Md. Advertised, Eng. News, July 19 to Aug. 2.			July 19
Aug. 7	Gravel road, Petersburg, Ind			July 26
Aug. 7	Gravel road, Martinsville, Ind			July 26
Aug. 7	Road, Ravenna, Ohio			July 26
Aug. 7	Macadam, Pleasant Ridge, Ohio			July 26
Aug. 8	Gravel road, Rockville, Ind			July 26
Aug. 8	Gravel roads, Bloomington, Ind			July 26
Aug. 8	Gravel road, Paoli, Ind			July 19
Aug. 8	Macadam, Camden, N. J			July 19
Aug. 9	Paving, Memphis, Tenn			July 26
Aug. 9	Asphalt paving, Memphis, Tenn			July 19
Aug. 11	Paving, etc., Portsmouth, Ohio			July 26
Aug. 12	Gravel road, Valparaiso, Ind			July 19
Aug. 14	Paving, Independence, Kans. Advertised, Eng. News, July 19.			July 19
Aug. 14	Road work, Cleveland, Ohio			July 26

MISCELLANEOUS CONTRACTS.

At once	Ry. generator, locomotives, etc., Farmington, Mo			July 26
July 27	Repairing dam, Cincinnati, Ohio			June 28
	Advertised, Eng. News, June 28 to July 19.			
July 27	Elec. railway, Hamilton, Ont. Advertised, Eng. News, July 12.			July 12
July 27	Improving creeks, Albany, N. Y. Advertised, Eng. News, July 12 to 26.			July 12
July 28	Dredging, Milwaukee, Wis			July 26
July 30	Levee, Vicksburg, Miss			July 26
July 30	Dredging, etc., Los Angeles, Cal. Advertised, Eng. News, July 12 and 19.			July 12
July 30	Pile piers, Manitowoc, Wis			July 5
	Advertised, Eng. News, July 5 and 12.			
July 30	Levee, Vicksburg, Miss. Advertised, Eng. News, July 19 and 26.			July 19
July 30	Ditch, Alexandria, Minn			July 19
July 31	Levee, Greenville, Miss. Advertised, Eng. News, July 19 and 26.			July 19
July 31	Canal, Browning, Mont. Advertised, Eng. News, June 7 to July 5.			June 7
July 31	Ditch, Fairmont, Minn			July 26
July 31	Ditch, Breckenridge, Minn			July 26
July 31	Boilers, etc., Washington, D. C			July 26
July 31	Fire engines, fire boats, New York, N. Y.			July 26
Aug. 1	Levees, drain, Savanna, Ill			July 26
Aug. 2	Concrete dock, Michigan City, Ind			July 26
Aug. 3	Canal, Port Huron, Mich. Advertised, Eng. News, July 12 and 19.			July 12
Aug. 3	Corral fences, Ft. Ethan Allen, Vt. Advertised, Eng. News, July 12 to 26.			July 12
Aug. 5	Destructors, Edmonton, Alta. Advertised, Eng. News, July 5 and 12.			July 5
Aug. 6	Drain, Eldora, Iowa			July 26
Aug. 7	Dam apron, Albany, N. Y			July 26
Aug. 7	Ditch, Moorhead, Minn			July 26
Aug. 7	Tunnel, Boston, Mass. Advertised, Eng. News, July 26 and Aug. 2.			July 26
Aug. 7	Naval supplies, Washington, D. C			July 26
Aug. 7	Timber wharf, Seattle, Wash			July 26
Aug. 7	Pumping plant, Billings, Mont. Advertised, Eng. News, June 21 to July 19.			June 21
Aug. 8	Dredging, Boston, Mass. Advertised, Eng. News, July 26.			July 26
Aug. 9	Levee, New Orleans, La			July 26
Aug. 9	Levee, Memphis, Tenn. Advertised, Eng. News, July 12 to Aug. 2.			July 12
Aug. 13	Granite posts, etc., Newport News, Va. Advertised, Eng. News, July 12 and 19.			July 12
Aug. 14	Light-house, Mobile, Ala. Advertised, Eng. News, July 19 to Aug. 16.			July 19
Aug. 14	Naval supplies, Washington, D. C			July 26
Aug. 20	Dredges, St. Louis, Mo. Advertised, Eng. News, July 19, 26, Aug. 9 and 16.			July 19
Aug. 21	Naval supplies, Washington, D. C			July 26
Aug. 23	Grading, steel bars, Billings, Mont. Advertised, Eng. News, July 12 to 26.			July 12
Aug. 30	Canals, etc., Williston, N. Dak. Advertised, Eng. News, July 12 to 26.			July 12
Aug. 30	Tunnel, Boston, Mass. Advertised, Eng. News, June 21 to July 26.			June 21
Aug. 30	Tunnel, Salt Lake City, Utah			June 21
Aug. 31	Drainage, St. Augustine, Fla			July 19
Aug. 31	Dipper dredge, St. Augustine, Fla			July 19
Sept. 1	Storage works, Concully, Wash. Advertised, Eng. News, July 26 to Aug. 16.			July 26
Sept. 4	Railway supplies, Siam (Foreign). Advertised, Eng. News, Apr. 26.			Apr 26
Sept. 4	Cars, Bangkok, Siam. Advertised, Eng. News, May 8 and 10.			May 31
Sept. 4	Railway ties, Ottawa, Ont			July 5
Sept. 11	Canals, ditches, Williston, N. Dak. Advertised, Eng. News, July 19 to Aug. 9.			July 19
Sept. 12	Locomotives, Bangkok, Siam. Advertised, Eng. News, May 8 and 10.			May 31
Sept. 15	Canal, levee, Grosse Tete, La			July 26
Sept. 17	Dam, Hermiston, Ore. Advertised, Eng. News, July 26 to Aug. 16.			July 26
Sept. 18	Portland cement, Portland, Ore. Advertised, Eng. News, July 26 to Aug. 9.			July 26
Sept. 26	River dredging, Chicago, Ill			July 19
Sept. 26	Dredging plant, Chicago, Ill			July 19
Oct. 1	Lock, Donaldsonville, La. Advertised, Eng. News, July 5 to Sept. 27.			July 5
Oct. 15	Drains, Rio Grande do Sul, Brazil			May 31
Oct. 15	Steel sheds, Manila, P. I			July 5
Oct. 15	Steel sheds, Rys., Manila, P. I. Advertised, Eng. News, July 19 to Aug. 30.			July 19
No date	Grading, Cairo, Ill. Advertised, Eng. News, July 26.			July 26

CIVIL SERVICE EXAMINATIONS.

Aug. 2	Subinspector, North Chicago, Ill			July 26
Aug. 2	Foreman, North Chicago, Ill			July 26
Aug. 8	Surveyor, Philippine Islands			July 5
Aug. 8	Arch. Draftsman, Tompkinsville, N. Y.			July 5
Aug. 15	Arch. Draftsman, Philippine Islands			July 5
Aug. 18	Marine Engr., Albany, N. Y			July 26
Aug. 18	Asst. Civil Engr., Albany, N. Y. Advertised, Eng. News, July 26.			July 26
Aug. 22	Tracer, Panama			July 19
Aug. 22	Science Engineer, Manila, P. I			July 19

Proposed Work

ENGINEERING NEWS desires to obtain the **EARLIEST POSSIBLE RELIABLE INFORMATION** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

Address, **Construction News Department**

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ARKANSAS.—The Baker Lumber Co., of Berryville, Ark., will build 20 miles of railroad. F. E. Ayers is Pres.; T. R. Bingham, Secy. and Treas., and W. B. Baker, Gen. Mgr.

ARKANSAS, ANTHRACITE & WESTERN.—Location surveys for this road from Fort Smith to Prairie View, Ark., 65 miles, are being made. It is not expected that construction will be undertaken before Jan. 1, 1907. George W. Sturtevant, Fisher Bldg., Chicago, is Ch. Engr.

ATLANTIC & WESTERN.—H. P. Edwards, Supt., Sanford, N. C., states that an extension is to be built from Broadway to Goldsboro, N. C., 70 miles. P. D. Watkins is Ch. Engr.

ATLANTA & NEW ORLEANS.—This company has been chartered in Georgia. Company's line in Georgia will be 56 miles long from Atlanta to a point near the Tallapoosa River near the Alabama state boundary. The purpose of the company is to build also through Alabama, Mississippi and Louisiana to New Orleans and Baton Rouge, La., a distance of several hundred miles. The incorporators are William N. Hawkes, Ronald Rauson, H. S. Collinsworth, Eb T. Williams, F. M. Merkell, B. L. Crew, B. M. Foster, B. H. Abrams, F. M. Butt and James S. Middleton, of Atlanta, Ga.

ALBANY, CAIRO & GULF.—Application will be made for a charter by a company to be known as the Albany, Cairo & Gulf R. R. Co. The line will run from Albany through Newton, Cairo and Quincy, Fla., to St. Joseph's Bay, a distance of about 180 miles. The principal office of the company is to be in Cairo, and among those applying for the charter are W. B. Roddenbery, W. A. Walker, W. S. Wight, W. C. Jones, J. P. Malloy, O. T. Davis and M. L. Ledford, of Albany, Ga.

BEAUMONT & GREAT NORTHERN.—C. A. Noblitt, Ch. Engr., at Trinity, Tex., reports that this road has been completed from Trinity to Onalaska, Tex., 19½ miles, and that work is in progress from Onalaska to Livingston, 15 miles. A further extension from Livingston to Beaumont, Tex., 60 miles, is proposed. L. O. Jackson, Onalaska, Tex., is Pur. Agt.

BEAUMONT & SARATOGA TRANSPORTATION CO.—J. H. Broome, Supt., Voth, Tex., announces that two miles of track have been laid on the extension which this company is building from Black Creek to Pelt, Tex., seven miles. The line is to be extended from Pelt to Saratoga, eleven miles.

BIG SANDY & CUMBERLAND.—J. Mortimer, Gen. Supt., at Panther, W. Va., is reported to be interested in plant of the Ritter Lumber Co. to build a narrow-gage line through a section of Wyoming County, W. Va.

BALTIMORE & OHIO.—According to an exchange, this company has announced that "the proposition to build a cut-off around Sand Patch tunnel has been considered for several years, and some preliminary surveys have recently been made, but nothing definite has been done to build the line."

BUFFALO, ROCHESTER & PITTSBURG.—In regard to the published press report that this company was surveying for a new line, J. M. Floesch, Ch. Engr., B., R. & P., Rochester, N. Y., writes us that "the reports that this company is to extend its line in Pennsylvania are groundless. We have no engineering parties in the field making surveys for extensions, and it seems that these reports originated with an engineering corps, whose identity we do not know, giving out the information that they were working for the B., R. & P. We have no contracts to let at the present time."

CANADIAN NORTHERN.—Grading on the extension from Oakland, Man., to the Delta spur, north of Portage la Prairie, has been commenced. JAMES COWAN, of Portage la Prairie, Man., has the contract. Rails are to be laid at once between Ridgeway and Vassar, Man. This line is being built in order to carry grain from southern Manitoba points instead of by hauling it around by way of Winnipeg as at present it is being done.

CANADIAN PACIFIC.—We are advised that MACDONALD & STEPHEN, Durham, Ont., have contract for building a branch from Proton to Walkerton, Ont., a distance of about 40 miles. The contractors are in the market for light traction steam shovels of ¾ or 1 cu. yd. capacity; also bottom dump wagons.

Construction has begun at Coutlee, B. C., on the Nicola Valley Ry. extension to Nicola Lake, B. C.

A party is surveying a line from end of the Lacombe extension to Hanley, on the Prince Albert branch. Company will do its own construction work.

CALIFORNIA NORTHEASTERN.—D. D. Griffiths, Ch. Engr., Weed, Cal., states that work is in progress on this road from Grass Lake to Mt. Hebron, about 26 miles, and that an extension is proposed from Mt. Hebron to Klamath Falls, Ore., 36 miles.

CHICAGO, MILWAUKEE & ST. PAUL.—It is reported from Butte, Mont., that contract for the Butte & Whitehall division of the C., M. & St. P. has been let to ORMON & COOK, of Butte, for $3,000,000.

CUMBERLAND R. R.—F. F. Whittekin, Ch. Engr., Warren, Pa., writes that work is in progress on this road from Cumberland, Ky., to Jellico, Tenn., 23 miles, via Artemus and Bennettsville.

DANBURY & PORT CHESTER.—A hearing was held in New York City on July 16 before the State Railroad Commissioners, on the application of the Danbury & Port Chester Railroad Co., for the approval of a proposed railroad between Danbury and Greenwich, Conn. Near Greenwich the road is to connect with the main line of the New York, New Haven & Hartford, of which system it will form a part. The connection is to be within the State of New York. O. M. Shepard, Gen. Supt. of the New York, New Haven & Hartford, said that the special object of the new road is to relieve the steadily growing congestion on the New York division of the main line. There will be a saving in time of 25 minutes between New York and Danbury.

DENVER, KANSAS & GULF.—This road, an extension of the Denver, Enid & Gulf, is under construction from Kiowa to Sun City, Kans., 40½ miles. It is to be extended from the latter point to Belvidere, eleven miles. J. F. Carey, Enid, Okla., is Ch. Engr.

FOX RIVER RY.—We are officially informed that this company has made surveys and secured right-of-way and capital for its proposed line from Manitowoc to Sheboygan, 23 miles. Contracts will be let soon. Grading has been started. Percy W. Fairman is Pres., at New York. O. C. Behnkel is Ch. Engr., at Cleveland, Wis.

FREEO VALLEY.—This road has completed an extension, three miles long, to Milepost 21, and work is in progress from the end of track to Princeton, Ark., four miles. A further extension from Princeton west, twelve miles, is proposed. Edward Bower is Gen. Mgr., at Eagle Mills, Ark.

GEORGIA, FLORIDA & ALABAMA.—Company will make extensive improvement at its terminal at Carrabelle, Fla. John Pasco, Jr., Ch. Engr., at Bainbridge, Ga., will be in charge. Other construction work planned by this company was noted in Engineering News last week.

KENTUCKY MIDLAND.—An extension will be built by this company from Earles, Ky., to Madisonville, 12 miles. M. M. Wheeler is Ch. Engr., at Central City, Ky.

KANSAS CITY TERMINAL.—The St. Louis "Globe-Democrat" states that Cyrus Crane and I. P. Dana, as attorneys for this company, have incorporated the Kansas City Terminal Ry. with a capital of $30,000,000, for a term of 999 years. The incorporators are B. L. Winchell, J. W. Kendrick, A. J. Earling, S. M. Felton, W. B. Scott, F. A. Delano and D. Willard, of Chicago; C. S. Clarke and A. J. Davidson, of St. Louis; A. A. Allen, of Dallas, Tex., and J. M. Egan, of Kansas City, each having 999 shares, except Mr. Egan, who has ten shares. The company proposes to acquire, construct and maintain a standard-gage railroad, with one or more tracks, to be operated in the counties of Jackson and Clay, crossing the Missouri River into Clay County, to a connection with the Chicago, Burlington & Quincy. The proposed line is to be ten miles in length. The company will also acquire a line of railroad in Wyandotte County, Kansas, the line so acquired to form a continuous line with the road to be constructed. Besides this line of railroad the company is to build a new union station, to be fitted for passengers and with offices. This building, it is stated by the attorneys, is likely to be located at 120th St. and Grand Ave., in Kansas City. One of the roads to be acquired is the Kansas City Belt, which now has six tracks. The incorporators are all executive officers of the ten railroads entering Kansas City, except J. M. Egan, who has been selected to manage the Terminal. The lines are: Rock Island, Santa Fe, St. Paul, Chicago & Alton, Wabash, Burlington, Missouri Pacific, Frisco, and Missouri, Kansas & Texas.

LEROY & SOUTHWESTERN.—Alvin H. Shelby, Pres., Bloomington, Ill., advises us that contracts are to be let about Aug. 10 for building this railway. As noted on June 14, this company was incorporated in Illinois to build from Leroy to Waynesville, Ill.

LAKE ERIE & PITTSBURG.—It is reported that the CARTER CONSTRUCTION CO., of Cleveland, Ohio, which has contract for building this company's line through Youngstown, Ohio, has sublet contract for work east of Metz to F. A. MASELLI & CO., of Rochester, Ohio.

NEW ORLEANS GREAT NORTHERN.—We are informed that McKinney & Oliver, of the firm of W. J. Oliver & Co., of Knoxville, Tenn., would like to let to responsible parties about 70 miles of track laying and ballasting that they have on the New Orleans Great Northern R. R. in Louisiana and southern Mississippi. The gravel for ballast is furnished by the railroad company; 35 miles of this work will be ready for the track in 30 days and there are now cross-ties on the right-of-way in sufficient quantities to keep well ahead of the tracklaying. Full particulars may be had by addressing McKinney & Oliver, at Columbia, Miss.

OREGON R. R. & NAVIGATION CO.—Contract for rebuilding the main line between Troutdale and Bonneville, Ore., has been awarded to the PACIFIC COAST CONSTRUCTION CO., Sherlock Bldg., Portland, Ore., at $620,000.

OREGON STATE PORTAGE RAILROAD.—L. S. Cooke, Supt., Celilo, Ore., states that it is proposed to build an extension from Big Eddy to The Dalles, Ore., 3½ miles. Grading has not been started.

PENNSYLVANIA.—The Pittsburg "Post" on July 15 made the following statement concerning a matter which is creating much controversy at present in Pittsburg: "Five new and important railroad systems will have passenger and freight terminals in Pittsburg in a short time. Every one of them will come from the east, and through them the distance between Pittsburg and the seaboard will be reduced; so will the distance between Pittsburg and Buffalo, and in each case the new roads will be entirely independent and free from entanglements with existing roads in this territory. The financial organization has been completed through the floating of a bond issue of $55,000,000 jointly by E. H. Gay & Co., of Boston, and Fisk & Co., of New York, and official announcement of this fact will be forthcoming from Boston by Tuesday or Wednesday of next week. The newcomers to Pittsburg are: The Erie Railroad, main line from New York to Chicago; Buffalo, Rochester & Pittsburg, now entering by trackage terminals, but which will come on its own line, and extending from Pittsburg to Buffalo, N. Y.; the Pittsburg, Shawmut & Northern main line, from Pittsburg to Buffalo; the Buffalo & Susquehanna Railroad, main line, from Pittsburg to Buffalo and through central Pennsylvania oil fields; the Pittsburg, Binghamton & Eastern Railroad now building from Binghamton westward to Dubois, and with main line to be extended from Pittsburg to Albany, N. Y., where direct connection will be made to Boston, Mass. All these roads will enter Pittsburg, touch all of her great freight producing districts, establish a $3,000,000 union passenger terminal on a site already projected from encroachments and by a joint ownership of a single road with four tracks as main line less than 50 miles long. This joint road will be none other than the Pittsburg & Northeastern Railroad, which has been chartered and is surveyed and right-of-way practically protected from Hazelwood, northeast to South Bend, in Indiana County."

TIDEWATER RY.—The McDermott Contracting Co., Maysville, Va., or 1116 Pennsylvania Bldg., Philadelphia, makes the following announcement: "Contractors having team and scraper equipment unemployed can hear of attractive piece of railroad grading work in Virginia, on Tidewater Railway." (Advertised, Engineering News.)

TENNESSEE RAILWAY.—This company, which is now in operation from Oneida to Winona, Tenn., 17 miles, is building an extension to the head waters of the New River, a distance of 75 miles from Oneida. Grading is in progress on the first 21 miles and 12 miles of track have been laid. The line follows the New River from the mouth of the Paint Rock Creek. J. E. RODES & CO., of Knoxville, Tenn., are the contractors. Bird M. Robinson, New York, is Pres.; B. A. Newland, Oneida, Tenn., Gen. Mgr.; W. O. Dyer, Norma, Tenn., Ch. Engr.

VALDEZ-YUKON R. R.—A. W. Swanitz, Ch. Engr., at Valdez, Alaska, informs us that this line will be 420 miles long, extending from Valdez to Copper Centre and to Tanana River. Capital is ready and right-of-way is obtained and surveys made. Line is graded for 15 miles and wharves and terminals are built. Company has its own construction plant and does its own work excepting a number of small subcontracts on station work. W. B. Stewart is Pres., at York, Pa.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

JOHNSTOWN, PA.—We have been officially advised that the surveys for the Johnstown & South Fork St. Ry. have been completed, and the right-of-way nearly all obtained. The capital has been secured and work will be commenced as soon as the charter is granted, which will be Aug. 7. The route of the line is from Johnstown to Ebensburg, via South Fork. The incorporators are C. B. Hamm, P. S. Fisher, Charles R. Glock, W. H. Levergood and Harry Swank, all of Johnstown.

SHARON, PA.—The Sharon & South Sharon St. Ry. is to be extended into Wheatland, and a state charter has been secured with a nominal capital of $6,000. The incorporators are Randall Montgomery, Youngstown, Ohio, Pres.; Directors, Charles Beckman, Sharon; M. E. McCaskey and W. T. Burns, New Castle, and S. C. Rodgers, New Bedford. It is also the intention of the company to build to West Middlesex. Leighton Calkins, 30 Broad St., is Secy. of the Youngstown-Sharon Ry. & Light Co., which controls the several companies in Sharon.

FREDERICK, MD.—D. Columbus Kemp, Pres. of the Washington, Frederick & Gettysburg Ry. Co., states that survey will be complete the last of this month, and it is then proposed to finish the road, 16 miles long, from Frederick to Thurmont, Md. Charles Eldredge is Engr.; Dr. S. B. Smith, Treas., and Charles C. Waters, Secy. W. Hink is Attorney. Application has been made to the Board of Aldermen for a franchise in Frederick.

CHRISTIANSBURG, VA.—Bids are asked until 11 a. m., July 30, by John R. Johnson, for a street railway franchise.

ROANOKE, VA.—The Twin City Electric Co. has applied to the Common Council for a franchise to operate an electric railway in this city. This company has been organized with the following officers: C. Markley, Pres.; C. G. Cannaday, Vice-Pres.; A. L. Rife, Secy. and Treas., and M. A. Rife, Gen. Mgr. The above, with G. T. Ellis and B. B. Dillard, compose the Board of Directors. The company proposes to extend the line to Salem.

CHARLESTOWN, W. VA.—The Frederick County Board of Supervisors has granted the application of the Winchester & Washington City Ry. Co. for a franchise for a right-of-way through Frederick County for its electric railroad, which is to be built between Winchester and Berryville, connecting with the Southern Ry. at or near Bluemont, Loudoun County.

FAIRMONT, W. VA.—We are officially advised that the Marion R. R. Co., which was incorporated last month, will build an electric line to Barrackville and Fairview, ten miles in length. Surveys are made and most of right-of-way is secured. Capital is partly obtained. Contracts probably will be let this fall for construction. Thomas W. Fleming is Pres.; F. H. Bailey, Ch. Engr., and Allison S. Fleming, Secy., all at Fairmont, W. Va. Capital stock is $500,000.

MOBILE, ALA.—Survey is reported begun for the proposed electric railway for which franchise was granted to Harry Pillons and associates. H. M. BYLLESBY & CO., 171 LaSalle St., Chicago, Ill., have the construction contract.

COVINGTON, LA.—The St. Tammany & New Orleans Ry. & Ferry Co. has been granted a special tax of five mills for ten years. It is proposed to build an electric railway from Covington to Mandeville, from Covington to Ramsay and from Mandeville to Abita Springs.

YAZOO CITY, MISS.—It is reported that the City has sold to S. A. Kean, of Chicago, $50,000 of bonds, which will be used to build the proposed municipal electric street railway. W. G. Kirkpatrick, City Engr., of Jackson, Miss., is about to make survey and establish grades for the lines.

LAGRANGE, KY.—A press report states that the Louisville & Eastern R. R. Co. has reached an agreement with the Board of Trustees. A franchise will be granted the company to enter the town on Main St. and run around the Court House Sq.

EAST LIVERPOOL, OHIO.—George L. Wells, Ch. Engr. and Supt. of Construction, Pioneer Bldg., Salem, writes as follows regarding the proposed electric line between Washingtonville and East Liverpool: "The Youngstown & Ohio River R. R. Co. has located its line between Washingtonville and East Liverpool, Ohio, for the construction of an electric railroad. The work will average about 24,000 yards to the mile. About five miles of the work has been let, and work opened up. The company is now ready to let contracts for the balance. When this road is completed it will make a complete railroad connection between Cleveland, Ohio, and the Ohio River."

COLUMBUS, IND.—We are officially informed that contracts have been let by the Indianapolis, Columbus & Southern Traction Co. for building a 19-mile extension from Columbus to Seymour, Ind. Grading is one-third completed, and bridge construction has been begun. W. G. Irwin is Ch. Engr. and Gen. Mgr., at Columbus. The line connects Indianapolis, Southport, Whiteland, Franklin, Amity, Edinburg, Greenwood, Taylorsville and Columbus.

KALAMAZOO, MICH.—The Council has granted a franchise to the Kalamazoo, Gull Lake & Northern R. R. Co. It will build a line from this city through Holland to the northern shore of Gull Lake, to connect with the proposed Battle Creek & Grand Rapids Electric line. It is said that W. J. Jacobs, of Chicago, is at the head of the enterprise. The company proposes to build a loop in this city on Rose, South and Edwards Sts. and Kalamazoo Ave., encircling the business district.

LAINGSBURG, MICH.—The Village Council has granted to Joseph Thick, of Detroit, a 30-year franchise for operating an electric railway through the streets of Laingsburg.

SOUTH HAVEN, MICH.—The Common Council has extended the franchise of the Kalamazoo, Lake Shore & Chicago Traction Co. for another year, giving the company until July 1, 1907, to complete its line and have cars running in the city.

PENTWATER, MICH.—We are officially advised that surveys for locations of the Grand Rapids-Ludington Electric Ry. have been started. It is proposed to obtain power from one of several large rivers which will be crossed by this line.

CHICAGO, ILL.—We are officially advised that J. G. White & Co., 49 Exchange Pl., New York, have completed estimates and surveys for an important addition to the traction system centering in Chicago. It will be an electric railroad 70 miles long from South Bend, Ind., to the Illinois-Indiana state line in the city of Hammond, to be known as the Chicago, Lake Shore & South Bend Ry. It is reported that the road will be financed by the Transit Finance Co., of New York, and it is expected that the line will be completed by the Illinois Central from Hammond northwest into Kensington, there making connection with the Central tracks for a continuous route into Chicago. The Illinois Central is bound by traffic agreements not to build east of the state line, which accounts for the rather unusual construction conditions. From Hammond the new road will run eastward into the new United States Steel Corporation's city of Gary, crossing the Grand Calumet River just before entering the city. From Gary east to Dunne Park the electric line will practically parallel the tracks of the Lake Shore & Michigan Southern, crossing them as well as the tracks of the Baltimore & Ohio Railroad from the south to north at Miller. From Dunne Park to Michigan City the route of the electric road will lie between the tracks of the Michigan Central and the shore of Lake Michigan. The route from Michigan City is almost straight east to South Bend, a distance of about 30 miles. The tracks of the Lake Erie and Western Railroad and of the Pere Marquette will be crossed about a mile east of Michigan City. From New Carlisle into South Bend the electric road will be exactly parallel to the Lake Shore & Michigan Southern for a distance of 14 miles. It is said that a steamer service from Michigan City to Chicago will be run in connection with the new road, giving the residents in the district from Michigan City to South Bend, inclusive, a particularly quick and convenient route into Chicago. The road will be for both passenger and freight traffic, and that it will be thrown into direct competition with the steam roads in the district is at once apparent. Indeed the situation now obtaining on the south shore of Lake Erie between Cleveland and Toledo will be practically duplicated on the completion of the new road. It is not as yet determined whether the line will be single or double track. The construction will conform to the best interurban standard and track will be laid with 75-lb. rails. The specifications in the case of the single track line call for a width of 18 ft. on the fills and 21½ft. in cuts, with side slopes 1½ to 1. All bridge structures, except the bridge over the Calumet River, will be of concrete or steel, and two trolley wires will be included in the overhead equipment. In case the single track road is decided upon, eight sidings, each 2,700 ft. long, will be provided. Specifications for double track road provide

for a width of 31 ft. on the fills and 34 ft. in cuts. The conditions of grade and curvature will be very moderate over the entire line. On 85% of the road the grade will not exceed ½% of 1% and the usual maximum for overhead crossings will be 2%. At two points, however, the grade on these bridges may run to 5%. As approved, the total curvature for the line amounts to 1034°, divided between 59 curves, practically all within the city limits of the various towns en route.

OSKALOOSA, IOWA.—The contract has been let to the COOKE CONSTRUCTION CO., of Minneapolis, Minn., to build the Oskaloosa & Buxton Interurban Ry., work to begin immediately.

DES MOINES, IOWA.—John W. Budd, ex-City Engr., has commenced the preliminary survey for an electric interurban to run between St. Joseph, Mo., via Des Moines, to Sioux Falls, S. Dak., it is reported.

PARSONS, KANS.—C. N. Petty, Altamont, Kans., Pres. of the Kansas Union Traction Co., writes us that capital has been arranged for construction of this company's railway from Parsons to Coffeyville, 40 miles, via Altamont and Edna. Right-of-way is partly secured, but surveys have not been made. "Farmers, as well as others, along the line are very enthusiastic, and are glad to give right-of-way. Expect soon to complete profile. Probably will let contracts in small amounts."

GUTHRIE, OKLA.—A charter has been issued to the Newkirk, Tonkawa & Southern Electric Railroad Co., with headquarters at Oklahoma City. The company has $1,500,000 capital stock, and is to build an interurban line from Newkirk to Oklahoma City, traversing the counties of Kay, Noble, Logan and Oklahoma and passing through the cities of Newkirk, Peckham, Blackwell, Billings, Perry, Orlando, Mulhall, Guthrie, Edmond and Oklahoma City. M. P. Brown, J. S. Kerfoot and H. E. Elder, of Oklahoma City; Thomas S. Smith, of Newkirk, and E. G. Warfield, of New York, are the incorporators.

PORTLAND, ORE.—W. S. Barstow, of W. S. Barstow & Co., Inc., Engrs., 56 Pine St., New York, has returned from Portland, Ore., after a four weeks' trip. He reports that there is in contemplation the building of several miles of railroad extensions in connection with the Oregon Electric Railway Co., for which W. S. Barstow & Co. are now building and equipping about 60 miles of road. It is expected that part of the main line between Portland and Salem will be in operation Sept. 1, and that cars will be operated between the two cities by July 1, 1907.

BOISE, IDAHO.—We are advised by Victor M. Weil, Pres. of Boise, Big Creek & Thunder Mountain R. R., Roosevelt, Idaho, that contracts will be let directly after July 26 for construction of this railroad. It will be 176 miles long and will extend from Boise to Roosevelt. I. A. Bullard, of Boston, Mass., is Ch. Engr. We were recently informed that surveys are made and most of right-of-way is secured; $600,000 is already underwritten for its construction. The company was incorporated recently in Boise with $10,000,000 capital. The incorporators named were: Nathan W. Holland, Wolfboro, N. H.; Julius B. Stark, Haverhill, Mass.; Victor M. Weil, Hyde Park, Mass.; Horton A. Hazard, Rockford, Ill.; Edward E. Varians, Newburyport, Mass.; Joseph Stark, Lodea Camba, Bolivia; Samuel W. Thackeray, Alden, Pa.; John Kopera, Natrona, Pa.; John Graham, South Manchester, Conn., and Arthur Halle, G. W. Fletcher and R. H. Johnson, of New York, N. Y.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

DIXFIELD, ME.—The Dixfield Light & Improvement Co. is reported organized with a capital of $50,000, for the purpose of manufacturing and dealing in gas and electricity, for lighting, heating and manufacturing purposes. L. J. Coleman is Pres., Gardiner; A. M. Macomber is Treas., Augusta.

STILL RIVER, MASS.—The Boston Heat, Light & Power Co. has decided to purchase the farm of Royal Cheney, of Still River, on which it is proposed to construct gas and electric plants, which will furnish light and power to Clinton, Ayer, Groton, Harvard and Leominster. Probable cost of plant, $80,000.

DANIELSON, CONN.—Plans and estimates are being made by the People's Light & Power Co. for extensive alterations and additions to its power house and plant.

SODUS, N. Y.—The Sodus Gas & Electric Light Co. has petitioned the State Commissioners on Gas and Electricity for permission to increase its capital from $15,000 to $20,000, for establishing a street lighting system in Sodus, and extending its lines to Williamson.

CALEDONIA, N. Y.—The Niagara, Lockport & Ontario Power Co., the American branch of the Ontario Power Co., Francis V. Greene, Gen. Mgr., Buffalo, N. Y., is reported to have purchased a site here, on which it is proposed to construct a transformer station, to cost about $50,000.

SCRANTON, PA.—E. S. WILLIAMS, Coal Exchange Bldg., has been awarded the contract for a power-house for The Economy Light, Heat & Power Co. The building will be 2 stories, and of brick.

MEADVILLE, PA.—Col. S. B. Dick, H. M. Dickson and M. Fuller, of Meadville, are interested in rebuilding the old Bemustown dam, and the establishing there of a large electric power plant, to supply Meadville and vicinity.

HARRISBURG, PA.—The Board of Trustees of the Pennsylvania State Hospital is reported to have awarded the contract for an addition to its central power plant to the YORK ENGINEERING CO., of York, for about $18,000.

MIDDLETOWN, PA.—The Borough Council has granted the York Haven Water & Power Co. the right to furnish Middletown with electricity for light and power purposes. E. F. Baker is Gen. Mgr.

WILMINGTON, DEL.—The Roydehouse Arey Co., Fidelity Bldg., Philadelphia, has been granted a permit by Building Inspector Connelly to build a $16,000 power house for the Pennsylvania R. R. at Water and Walnut Sts. The foundations will be built on timbers placed on pilings. The building will be 52 ft. 5 ins. by 37 ft. 2 ins., and the walls will be 12 ft. high. Concrete and brick will be used.

HYATTSVILLE, MD.—Bids are asked until July 28, by Joseph R. Owens, Mayor, for construction of an electric light plant and the line work for series incandescent and arc lighting, power plant and building revision. Alternate proposals on steam, producer gas and oil engine equipment will be received. C. L. Reeder, 919 Equitable Bldg., Baltimore, is the Engr.

WASHINGTON, D. C.—Bids are asked until July 31, at the Bureau of Supplies and Accounts, Navy Dept., Washington, for furnishing at the Navy Yards, Portsmouth, N. H.; Boston, Mass.; New York, N. Y.; League Island, Pa.; Washington, D. C., and Norfolk, Va., a quantity of naval supplies as follows: Schedule 41—Arc lamp poles, incandescent lamps, carbons, carbon holders, etc., conduit electrical supplies, etc. Schedule 42—Electric smoothing irons, cable iron, boiler tubes, etc. Schedule 43—Steel forgings. Schedule 44—Drills, emery wheels, carborundum wheels, sheet copper, sheet zinc, steel plates, black and galvanized steel shapes, brass and copper pipe, pipe fittings, valves, etc. Schedule 45—Condenser tubes, etc. Schedule 46—Portland cement, etc. Also on same date, for furnishing at the Navy Yards, etc., Charleston, S. C.; Key West, Fla., and Pensacola, Fla., the following: Schedule 47—Portland cement, coral sand and rock, brick tile, sheet copper, structural steel, etc. Schedule 48—Electrical supplies, black and galvanized steel plates, steel shapes, rivet steel, bar steel, steel billets, iron pipe, etc. Schedule 49—Valve resacting machine, planer, cranes and hoists, Portland cement, etc.

Bids are also asked until Aug. 7 for furnishing at Navy Yards, Mare Island, Cal., and Puget Sound, Wash., the following: Schedule 37—Motors and grinders. Schedule 38—Steel rope, nuts, spikes, etc. Schedule 39—Copper pipe, etc. Schedule 40—Bar iron, slab zinc, galvanized sheet steel, brass pipe, iron pipe, brass and iron pipe fittings, valves, etc. Applications for proposals should designate the Schedule desired by number. H. T. B. Harris, Paymaster Gen., U. S. N.

RICHARD & BURGESS, Colorado Bldg., have secured contract to build a sub-power station for the Potomac Electric Power Co. The building will be brick and steel and two stories high.

Bids were opened July 17 by the Commissioners of the District of Columbia for operating the gas and naphtha street lights in the District. The bids were for the lighting privilege during the next year or for the next three years. The following bids were received (a) for one-year term (b) for three-year term, per year: For naphtha lighting—Union Lighting Co., Philadelphia, (a) $23.10 per lamp, (b) $22.80 for Keystone lantern; (a) $24.60, (b) $23.90 for boulevard lantern; American Street Lighting Co., of Baltimore, (a) or (b) $24.25. For gas lighting—Union Lighting Co., (a) or (b) $23; American Street Lighting Co., (a) $23, (b) $20.85; Cleveland Street Lighting Co., (a) $22.80, (b) $21.65. The American Street Lighting Co. and the Cleveland Street Lighting Co. are the present holders of the contracts which expired at the end of the fiscal year.

LEXINGTON, VA.—Plans are being completed by E. C. Wiley, Mechanical Engr., Lynchburg, Va., for heating and lighting plant to be built at the Virginia Military Institute.

FORTRESS MONROE, VA.—Specifications for furnishing and installing fixtures and meters in new buildings at Fort Monroe, as advertised, are on file at the office of Engineering News, New York. Bids are asked until July 30.

CHARLOTTE, N. C.—The Consolidated Construction Co. will soon build a new power-house and make other additions to its plant preparatory to enlarging its system. The company will install gas engines in place of the steam engines to run the generators.

ROCKINGHAM, N. C.—The Rockingham Power Co. has let the contract for the construction of a dam, across the Pee Dee River at Bluitt's Falls, where 28,000 HP. will be developed, to W. R. BONSAL & CO., of Hamlet, N. C. Transmission lines will be built to Wadesboro, Rockingham and other points.

CHARLESTON, S. C.—List of bids received on July 21st by the Bureau of Yards and Docks, Navy Dept., for generating sets and for machinery for the navy yard, will be given in full next week.

VALDOSTA, GA.—Valdosta Street Railway Co. is reported to be arranging for the erection of power-house.

MOBILE, ALA.—Bids are asked by the city until Aug. 10 for furnishing electric lights for five yrs.; also for period of 10 yrs., from Nov. 1, 1907; also for erection and operation of a 600-light plant for 10 yrs., based on municipal ownership after that period. Pat. J. Lyon is Mayor.

HARRIMAN, TENN.—The Board of Water and Light Commissioners of Harriman has awarded the contract for the entire equipment for arc lamps for the city to the SOUTHERN ELECTRICAL CO., of Nashville.

STONEBLUFF, IND.—Bids are asked until Aug. 4 by the Township Trustee, S. J. Ludlow, Veedersburg, Ind., for a steam heating plant for the Stonebluff school house. Capacity, 36,000 sq. ft. W. B. La Baw is Engr., Veedersburg, Ind.

RICHMOND, IND.—Regarding the improvements to the Richmond lighting plant, John F. Taggart, City Clk., writes: "All the necessary machinery for the proposed extension to the municipal electric lighting and power plant has been contracted for. THE GENERAL ELECTRIC CO., The WHEELER CONDENSER & ENGINEERING CO., and the CTIRLING BOILER CO. being the successful bidders. The cost of the machinery contracted for will amount to about $30,000. E. C. Mead & Co., of Dayton, Ohio, are Consult. Engrs.

GRAND RAPIDS, MICH.—The Grand Rapids Edison Co. will remodel the boiler house at its No. 1 plant at Fulton and Ottawa Sts., the work to be done during the summer. The old boilers will be removed to make place for modern equipment. This will increase the steam capacity of the plant, but the work will result mainly in a general betterment of the service. The present roof is also to be replaced with fireproof material.

MARQUETTE, MICH.—The Municipal Light & Power Commission has decided to construct new electric light plants, to be opened in conjunction with the present plant, to cost about $60,000.

CHICAGO, ILL.—Bids are asked until Sept. 12 by the Drainage Board for constructing a transformer plant for water power at Western Ave. and the channel. Robert R. McCormick is Pres.

LOCKPORT, ILL.—We have been officially advised that the bids received July 18 for construction of an emergency butterfly dam in main channel of the Sanitary District of Chicago, for the water power development of that district, near Lockport, Will County, were: Strobel Steel Construction Co., Monadnock Bldg., Chicago, $200,891; the Chicago Bridge & Iron Works, 105th and Throop Sts., $205,445. In addition, these firms bid for waterproofing tunnel and shafts, $1,838 and $1,439, respectively. Itemized bids may be found under Contract Prices in this issue.

KENOSHA, WIS.—The Milwaukee Engineering Co., Hathaway Bldg., Milwaukee, is preparing estimates for a municipal electric light plant for Kenosha, and the citizens will be called upon to vote on issuing bonds for the same. The probable cost is placed at $45,000.

CHARLES CITY, IOWA.—The Charles City Water Power Co. has decided to rebuild the dam across the Cedar River at Charles City, and also rebuild the mill which was destroyed by fire about a year ago. The new dam will be of solid concrete.

KANSAS CITY, MO.—Bids are asked until July 31 by the Board Public Works, Everett Elliott, Secy., for furnishing and installing three 200-HP. water-tube boilers, one 350-HP. engine direct connected 200-KW. generator and two electric passenger elevators.

TELLURIDE, COLO.—The Telluride Power Co. has awarded to the WESTINGHOUSE ELECTRIC & MFG. CO., of Pittsburg, Pa., the contract for the additions to its power transmission plant.

SPOKANE, WASH.—SANDERSON & PORTER, of Boston, Mass., have secured the contract for constructing a power plant for the J. P. Graves Inland Empire Railway Co., at Nine Mile Bridge.

OAKLAND, CAL.—Bids are asked until July 31 by Walter J. Mathews, Arch., 960 Broadway, Oakland, on behalf of the Department of Commerce for furnishing material and constructing a steam power plant, electrical equipment, plumbing, steam-heating plant, hot-water heating plant and electric light wiring, both for buildings and grounds.

EMMETT, IDAHO.—We are officially advised that in September bids will be asked for constructing a power plant for E. H. McAuley, to cost about $25,000. The plant will be operated by water. E. O. Hunt is Des. Engr. and Gen. Mgr.

QUEBEC, QUE.—The Frontenac Gas Co. has completed arrangements for installing a gas plant here.

HAILEYBURY, ONT.—The Provincial Government is reported to have granted permission to this town to develop the water power at Hound Chute, on Montreal River, for electrical purposes. An election probably will soon be held to vote on issuing bonds for an electric light plant. Plans are reported to have been completed for both water-works and electric light plant.

DELHI, ONT.—Bids received by John S. Fielding, Consulting Engr., 15 Toronto St., Toronto, for concrete dam for the Delhi Light & Power Co., were as follows: Jenks & Dresser, $23,094; John C. Webb, $21,925; Frazer & Eichle, $18,886; D. McDermid, $17,557; O. D. Oatman, $16,415; A. C. Stewart & Co., $15,864; David Chalmers, $15,100; Patterson, Ellis & Whelehan Co., $15,231; Brantford Building & Paving Co., $14,949; A. E. Oakley & Co., $12,731; A. Winger & Son, $12,700. The contract was awarded to A. Winger & Son, of Hagersville, Ont.

SASKATOON, SASK.—Bids are asked until August 14 by Adam Turner, Secy. and Treas., for the construction and materials for an electric light and water-works plant. Willis Chapman, of 103 Bay St., Toronto, Ont., is Ch. Engr.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

NEWTON, MASS.—Bids are asked until Aug. 7, by Irving T. Farnham, City Engr., for building a reinforced concrete and pile bridge over the Charles River at Newton.

SALEM, MASS.—Contract has been let to E. A. ABBOTT, of Boston, for the erection of a concrete and granite bridge across the Miles River.

WEST MEDFORD, MASS.—The following bids were received July 23 for building a bridge at Auburn St., West Medford: Rowe & Perinni, South Framingham, Mass. $20,823; Coleman Bros., $23,463; T. H. Gill & Co., $23,930; Bruno, Salamone & Petitti, $36,075.

JERSEY CITY, N. J.—Bids are asked until 4 p. m., July 26, by the County Freeholders, for the construction of a bridge across the Hackensack River, at the foot of West Newark Ave. Jno. P. Egan is Clk.

KUTZTOWN, PA.—It is reported that the Reading Ry. Co. will build a steel trestle, 120 ft. long, for the Allentown and Reading Traction Co.

PARKERSBURG, W. VA.—The Parkersburg Bridge Co. has been incorporated with a capital of $50,000, and will build a bridge across the Little Kanawha River. Chas. H. Shattuck, Sprigg D. Camden, Thomas Logan, J. W. Camden and R. Blizzard are the incorporators.

LEXINGTON, MISS.—Bids are asked until Aug. 6, by the County Supervisors, for making repairs to iron bridge over Tchula Lake at Tchula. P. Williams is Clk.

MELVILLE, LA.—KAHMANN & McMURRY, of Kansas City, Mo., have secured the contract to build the substructure of the bridge across the Atchapalaya River for the Colorado Southern, New Orleans & Pacific R. R.

NEW ORLEANS, LA.—Bids are asked until 1 p. m., July 30, by Chas. R. Kennedy, City Comptroller, for repairs to the Claiborne St. bridge, over New Basin.

CHATTANOOGA, TENN.—A bill has been passed authorizing the Chattanooga Northern Ry. Co. to build a bridge over the Tennessee River.

BEATTYVILLE, KY.—The Beattyville & Proctor Bridge Co. has been incorporated, with a capital of $40,000, to build a bridge over the Kentucky River. The officers are: F. A. Lyon, Pres.; J. F. Sutton, V.-Pres.; Samuel Hurst, Secy., and Samuel Dorch, Treas.

PADUCAH, KY.—This city is asking for plans, specifications and estimates for an iron bridge, 280 ft. long. L. A. Washington is City Engr. (Advertised Engineering News.)

ZANESVILLE, OHIO.—Bids are asked until noon, Aug. 13, by the County Auditor, for the erection of the superstructure of a bridge over the south fork of Jonathan Creek. L. E. Brelsford is County Audr.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., Aug. 4, by the Commissioners of Cuyahoga County, for the construction of a concrete culvert. J. C. Dorn is Clk.

SIDNEY, OHIO.—The County Commissioners have ordered the sale of $33,000 bridge bonds, $14,000 of which will be used in erecting a bridge across the Miami River in the southern part of the city.

PORTSMOUTH, OHIO.—Bids are asked until noon, Aug. 17, by F. N. Fynes, Audr. of Scioto County, for the construction of three steel bridges. Bids were first asked until July 16, but owing to an error in the advertisement, these were not opened.

RUSHVILLE, IND.—Bids are asked until Aug. 6, by the Board of Commissioners of Rush County, for constructing two 45-ft. concrete arches. A. L. Stewart is County Engr.

COVINGTON, IND.—Bids are asked until Aug. 10th, by the County Commissioners, for building the Covington Viaduct, including one 140-ft. steel bridge, two concrete piers, one concrete arch, excavating, etc. James J. Bell is County Audr., W. B. La Baw, Veedersburg, Ind., is Engr.

DANVILLE, IND.—Bids are asked until 2 p. m., Aug. 6, by the Commissioners of Hendricks County, for constructing a bridge in Center Township. D. D. Mills is County Audr.

INDIANAPOLIS, IND.—Bids are asked until 10 a. m., Aug. 2, by the Commissioners of Marion County, for the construction of bridges in Lawrence and Washington Townships. C. J. Clark is County Audr.

DECATUR, ILL.—The W. P. CARMICHAEL CO. has been awarded the contract for the $140,000 concrete bridge for the Wabash R. R. over the Sangamon River, near Decatur.

LEMONT, ILL.—Bids are asked until July 27, by the Cook County Commissioners, Continental Bank Building, Chicago, for a reinforced concrete bridge 360 ft. long, at Lemont. Plans and specifications are on file at the office of H. L. Emerson, Engr., 1311 Chamber of Commerce Bldg., Chicago.

HANOVER, ILL.—Bids are asked for a 36-ft. concrete arch bridge. Plans and specifications are at the office of the engineer, H. L. Emerson, 1311 Chamber of Commerce Bldg., Chicago.

ST. LOUIS, MO.—It is reported that the Kimmswick, Hillsboro & Northern Ry. Co. will build a bridge over the Meramee River to cost $40,000. Chas. A. Gutke, St. Louis, is Pres.

MARION, ARK.—Contract for the construction of a steel bridge over the Tyronza River, in Crittenden County, has been awarded by William Gilmore, County Judge, to the JOLIET BRIDGE & IRON CO., of Joliet, Ill., at $6,245.

COLEMAN, TEX.—Contract for the construction of three iron bridges has been awarded to the LEVERSIDGE BRIDGE CO., of Fort Worth. J. A. B. Miller is Mayor of Coleman.

GREELEY, COLO.—The contract for the first steel bridge to be erected in Weld County has been let to C. G. SHEELEY, of Denver. The bridge is to be built over the Platte River, three-quarters of a mile west of Fort Lupton, and will cost $4,200.

SPOKANE, WASH.—The bridge committee, composed of members of the Chamber of Commerce and the City Council, has recommended the construction of bridges and viaducts which will cost $538,000, according to the estimate of the City Engineer. R. H. Thompson is City Engr.

EVERETT, WASH.—Contract for the building of a steel drawbridge over the Stillaguamish River, between Florence and Stanwood, has been awarded to the PUGET SOUND BRIDGE & DREDGING CO., of Seattle, for $14,980.

SACRAMENTO, CAL.—Bids are asked until 11 a. m., July 26, by the County Supervisors, for the construction of a 70-ft. steel span bridge over the Consumnes River. W. B. Hamilton is Clk.

PENDLETON, ORE.—Contract for the erection of two steel bridges over the Wild Horse River has been let to EBERHART & CO., of Walla Walla, Wash.

REDDING, CAL.—Contract for the reconstruction of the Highland Bridge, over Fall River, has been awarded to W. C. SILVESTER, at $9,250.

HOLLISTER, CAL.—Contract for the construction of the Tres Pinos bridge has been awarded to K. KUCKENBEISTER, of San Jose, at $2,604.

NEVADA CITY, CAL.—Contract for building a bridge across Nigger Creek has been awarded to F. P. WILLIAMS.

REGINA, SASK.—Bids are asked until Aug. 13, by F. J. Robinson, Deputy Comr. of Pub. Wks., Regina, for the construction of eight concrete piers and two abutments for a traffic bridge over the Saskatchewan River.

MONCTON, N. B.—Bids are asked until Aug. 6, by C. H. La Balliois, Dept. Pub. Wks., Fredericton, for the erection of the metal superstructure of the Halls Creek Bridge.

TUSCARORA, ONT.—Bids are asked until Aug. 1, by S. J. McKelvey, Clk. of the Village of Middeport, for building an iron bridge with stone or concrete abutments.

WINNIPEG, MAN.—The City Engineeer has been instructed to prepare plans for a bridge over the Red River at the foot of McDermot Ave.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BAR HARBOR, ME.—It is expected that work on the new U. S. Post-office, which will be erected at a cost of $60,000, will begin at once.

MALDEN, MASS.—Brainard & Leeds, Archs., 8 Beacon St., Boston, have completed plans and work will soon commence on the Seventh Ward School, to cost $85,000.

BOSTON, MASS.—Bids are asked until 11 a. m., Aug. 18, by Mordecai T. Endicott, Chief Bureau Yards and Docks, Washington, D. C., for constructing an extension to Building 103, Boston Navy Yard.

PITTSFIELD, MASS.—The contract for a 3-story concrete and steel addition to the buildings of the Stanley General Electric Light Co., has been awarded to WHITNEY BROTHERS, North Adams, Mass., at $200,000.

NEW YORK, N. Y.—Raymond F. Almirall, Arch., 51 Chambers St., has been selected by Bird S. Coler, Boro. Pres., to prepare plans for the Central Library building of Brooklyn, which is to be erected on Prospect Park Plaza, at a cost of $2,000,000.

It is announced that the site of the Kings County Penitentiary, Crow Hill, Brooklyn, has been sold to Bishop Chas. E. McDonnell, head of the Roman Catholic Diocese of Long Island, and that a cathedral will be erected.

The New York City Street Ry. Co. will rebuild, at a cost of $100,000, the car stables at 12th Ave and 42d St., recently destroyed by fire. Building will be 200 × 201 ft.

According to plans prepared by J. A. Bensel, Dock Comr., and approved by the Municipal Art Commission, a new ferry terminal to accommodate all ferry lines now landing at the Battery. It will cost $1,500,000 and will have seven slips and large waiting rooms.

Bids are asked until 11 a. m., July 30, by C. B. J. Snyder, Supt. School Bldgs., for repairs and alterations at several schools.

JAMESTOWN, N. Y.—SHELLBERG, LINDQUIST & BAILEY were awarded the contract for the new South Side Grammar School, at about $56,000.

SYRACUSE, N. Y.—Frank P. Costigan, 407 Kirk Block, has purchased a site at James and McBride Sts., and will erect an apartment house to cost about $350,000. Chas. E. Colton, 502 Kirk Block, is Arch.

NEW YORK, N. Y.—The following bids have been received by C. B. J. Snyder, Supt. of School Bldgs.: General construction of additions to Public School, No. 79, Borough of Queens: Geo. Hildebrand, 38 Park Row, $68,941; Chas. Wille, 39 East 42d St., $65,991; Jas. McArthur, 22 Ormond Place, Brooklyn, $66,477. For general construction of Public School, No. 12, Borough of Manhattan, C. H. Peckworth, 415 Hudson St., $406,688; P. Brennan & Son, 949 Broadway, $389,477; P. Gallagher, 1189 Broadway, $427,450; Thos. Cockerill & Son, 147 Columbus Ave., $424,000; R. E. Henningham, 1 Madison Ave., $404,364; Geo. Hildebrand, 38 Park Row, $386,888; P. Sullivan, 230 Grand St., $434,000. For general construction of an office and storage building for the Board of Education in Brooklyn Borough: R. E. Henningham, 1 Madison Ave., $253,661; Clark Stowe, 44 Court St., Brooklyn, $262,300; P Cleary, 922 St. Marks Ave., Brooklyn, $265,000; Thos. Cockerill & Son, 147 Columbus Ave., $274,000; P. J. Brennan & Son, 949 Broadway, $251,000; C. H. Peckworth, 415 Hudson St., $242,800.

EAST ORANGE, N. J.—Preliminary plans submitted by Tubby & Peel, Archs., 81 Fulton St., New York, for the proposed Fourth Ward school, have been approved and building will begin as soon as permanent plans are ready. Cost $105,000.

PHILADELPHIA, PA.—It is reported that contract for the erection of the new Edwin Forrest Theatre at Broad and Walnut Sts., has been awarded to CRAMP & CO.

John T. Windrim, Arch., 1107 Walnut St., has awarded a contract to the CHARLES McCAUL CO. for the erection of the new Diamond exchange, at 1632 Diamond St., for the Bell Telephone Co. The building will be three stories high, 62 × 100. Cost $135,000.

ALLEGHENY, PA.—T. E. Billquist, Arch., Stevenson Bldg., Pittsburg, let the contract to JOHN H. TRIMBLE & BROS., 2022 Chartiers Ave., Allegheny, for the erection of a 6-story fireproof brick and steel Presbyterian hospital. Cost, $250,000.

PITTSBURG, PA.—The building committee of the Pittsburg high school, together with Warren P. Laird, Superv. Arch., University of Pennsylvania, Philadelphia, Pa., have chosen several architects to design in competition plans for the proposed high school. It will be 253 × 253 ft. fireproof, and will have sixty class rooms. Cost, $1,200,000. D. L. Gillespie is chairman of committee. Plans must be in by October 20, and award will be made by November 15.

BERNARD GLOEKLER, Penn Ave. and 12th St., is taking sub-bids on the erection of a 10-story brick and steel store building and warehouse in Penn Ave., near 16th St. Cost, $160,000.

WOODVILLE, PA.—VESTER, STEWART & RUSSELL, Washington, Pa., have secured the contract at about $115,000 for the construction of a dormitory, etc., at Allegheny county hospital. E. J. Carlisle & Co., 900 Westinghouse Bldgh., Pittsburg, are Archs.

LANCASTER, PA.—Newman & Harris, Archs., Land Title Bldg., Philadelphia, are preparing plans for a $75,000 building for Franklin and Marshall College.

PHILADELPHIA, PA.—Contract for an addition to the Medico-Chirurgical Hospital has been awarded to the E. L. LOUDER CO., Land Title Bldg., at about $100,000.

JOHNSTOWN, PA.—Contract for the erection of a school building has been awarded by the Board of School Controllers to GEORGE KRUEGER, of Johnstown, at $49,523.

CRAMP & CO., of Philadelphia, have been awarded the contract for building a 6-story office and warehouse building for the Swank Hardware Co., at $140,000, exclusive of carpenter work, plumbing, heating and painting.

BALTIMORE, MD.—Joseph E Sperry, Arch., Calvert Bldg., is preparing plans for a Y. M. C. A. building to be erected at Cathedral and Franklin Sts. at a cost of $500,000.

WASHINGTON, D. C.—Bids are asked until Aug. 1, by Wood, Donn & Deming, Archs., 808 17th St., N. W., Washington, for the construction of a bank and office building for the Union Trust Co., E. J. Stellwagen, Pres. To be erected at 15th and H Sts., at an approximate cost of $400,000. Bernard R. Green, Supt. of the Congressional Library, is Engr.

The Commissioners of the District of Columbia have awarded to the PAULY JAIL BUILDING CO., of St. Louis, contract for the construction of the cells at the new District workhouse, at $58,908. The contract calls for 190 cells complete, with sheet steel ceilings and cinder or fine gravel concrete floors.

Bids are asked until Aug. 15, by B. Stanley Simmons, Arch., 931 F St., N. W., Washington, for the construction of the Elks' Home on H St., between 9th and 10th Sts., N. W. The building will cost about $125,000.

Work is about to be started by Richardson & Burgess, Colorado Bldg., Washington, on the Geolographysical Laboratory of the Carnegie Institute, at the corner of Azadia and Upton Sts. The building will be three stories, 60 × 140 ft. and will cost about $100,000. Wood, Donn & Deming, 808 17th St., N. W., Washington, are Archs.

Henry L. A. Jenkel, Arch., Boston, Mass., has completed plans and will soon take bids on an office building to cost $200,000, for a company represented by Geo. H. Higbee and Westcott & Story, 816 17th St., N. W., Washington. The building will be situated at the N. E. corner of 14th and F Sts., and will be nine stories high, 29 × 86 ft.

NORFOLK, VA.—Bids are asked until July 30, at the office of the Breese & Mitchell, Archs, 500-506 Atlantic Trust Bldg., Norfolk, for the construction of the Virginia State building on the grounds of the Jamestown Ter-Centennial Exposition.

R. C. STREHLOW & CO., Board of Trade Bldg., Norfolk, have secured the contract at $97,973 for erecting the State Exhibit building on the Exposition grounds. G. T. Shepperd is Secy. of the Jamestown Exposition Co.

E. TATTERSON, 312 Main St., has secured the contract at $172,832 for the erection of the 8-story reinforced concrete Lynnhaven Hotel.

WHEELING, W. VA.—Bids are asked until 3 p. m., Aug. 9, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for installing a vacuum cleaning system at the U. S. Post-office here. (Advertised Engineering News.)

CHARLESTON, W. VA.—Alderson & Stevenson will erect a 10-story office building according to the plans of Harding & Upman, Archs., 729 15th St. N. W., Washington, D. C.

CHAPEL HILL, N. C.—We are informed by Frank P. Milburn & Co., Archs., Washington, D. C., that bids will be asked about Sept. 10th for the erection of 2½-story library, 55 × 85 ft., at the University of North Carolina.

CHARLESTON, S. C.—The time for opening proposals for constructing a brick and steel building and brick chimney, Navy Yard, Charleston, S. C., under the cognizance of Bureau of Yards and Docks, Navy Dept., has been extended from 11 a. m., July 28, to 11 a. m., Aug. 11. All other provisions of the advertisement, plans and specification remain unchanged.

EASTMAN, GA.—Contract for the erection of the Dodge County Court-house has been awarded to M. T. LEWMAN & CO., Louisville, Ky., at $70,000. Edward C. Hosford is Arch.

SAVANNAH, GA.—J. H. McKENZIE'S SONS, of Augusta, have been awarded the contract for the $100,000 plant to be erected for the American Can Company, 11 Broadway, New York. H. W. Witcover, Savannah, Ga., is Arch.

DODGE, GA.—Bids are asked until 11 a. m., Aug. 25, by Capt. H. D. Berkeley, Q. M., for supplying screen door and windows in the building at Fort Oglethorpe. (Advertised, Engineering News.)

MERIDIAN, ALA.—Meridian is planning for the erection of an up-to-date municipal building to cost about $100,000.

MOBILE, ALA.—Contract for the construction of a $300,000 8-story office building for Van Antwerp & Sons has been awarded to the INTERSTATE CONSTRUCTION CO. George B. Rogers, is Arch.

MEMPHIS, TENN.—It is reported that a $100,000 5-story warehouse and office building will be erected by Benedict, Warren & Co.

CLARKSVILLE, TENN.—It is stated that the contract for the erection of the jail at this place has been let to the POULY JAIL BUILDING CO., St. Louis, Mo.

LOUISVILLE, KY.—J. N. STRUCK & BROS. have secured the contract for the construction of the proposed 14-story building for the Lincoln Savings Bank. Kenneth, McDonald and W. J. Dodd, Equitable Bldg., are Archs.

AKRON, O.—Contract for the erection of a new 6-story building, to cost $100,000, has been awarded to JOHN CRISP & SON, by Long & Taylor.

MANISTEE, MICH.—Albert E. Colcord, Arch., 108 Dearborn St., Chicago, is preparing plans for the erection of a bank and office building for the Manistee County Savings Bank. Cost $75,000.

MUSKEGON, MICH.—It is reported that Adolphus Busch, the St. Louis brewer, will let the contract for the erection of a $250,000 summer hotel here, during the next two months.

ROCKFORD, ILL.—Engstrom Bros. will build an apartment house on North Main St. at a cost of $60,000. E. A. Carpenter is Arch.

CHICAGO, ILL.—According to press reports, the Empire Circuit Co. will build a new theatre on Clark St., near Jackson Ave. It will cost about $100,000.

It is reported that William M. Gibbons will erect a 12-story structure to cost $500,000 on his property, 52 × 76 ft., at 45 and 47 Jackson Boulevard, at a cost of about $500,000.

Holabird & Roche, Archs., Monadnock Block, are preparing plans for a department store to be built at the southeast corner of State and Harrison Sts., for the Harrison Trust Agreement. It will be 2-story, 160 × 138 ft. and cost about $60,000.

Hill & Woltersdorf, Archs., Lafayette Bldg., are preparing plans and will take figures about July 26 for a warehouse to be built at Franklin and Ohio Sts., for the Gould Co., manufacturers of centrifugal pumps. It will be 6-story, 87 × 100 ft., and cost $60,000.

MADISON, WIS.—Plans submitted by the firm of George B. Post & Sons, of New York, have been selected by the state commission for the new $5,000,000 state capitol building to be erected by Wisconsin.

GREEN BAY, WIS.—German & Lignell, Archs., Duluth, Minn., are preparing plans for the erection of a cut stone Federal building here. It will be three stories high, and cost $250,000.

DES MOINES, IOWA.—Smith & Wetherall, Archs., have awarded the contract for the interior work on the Historical building to J. E. LOVEJOY at $32,800; for the plumbing and heating to WALLACE & McNAMARA at $17,125.

CEDAR FALLS, IOWA.—Proudfoot & Co., Archs., Crocker Bldg., Des Moines, Iowa, will prepare plans for a library, museum and manual training building for the State Normal School. The estimated cost is $225,000.

DULUTH, MINN.—The contract for two additional stories and a 4-story wing to the Lenox Hotel has been awarded to ALEX. ROBERTS at $65,000. J. J. Wangenstein, 401 Providence Bldg., is Arch.

MINNEAPOLIS, MINN.—Long & Long, Archs., 830 Hennepin Ave., let the contract for the general construction of Janney, Semple, Hill & Co.'s warehouse on First St. and Third Ave. to H. N. LEIGHTON & CO., at $66,524.

ATCHISON, KANS.—The contract has been awarded to ALEX KINHORN, Kansas City, Mo., for a 5-story mercantile building, 75 × 140 ft., for A. J. Harwi, Atchison, by Saylor & Seddon, Archs., 406 Bank of Commerce Bldg., at $50,000.

ST. LOUIS, MO.—It is reported that the Tower Grove Turnverin will erect a new hall at Grand Ave. and Juanita St., at a cost of $100,000.

Plans have been completed for the new $450,000 theatre and hotel, which will be erected at Sixth and Walnut Sts., by the Lyric Amusement Co. J. L. Howard is Arch. Contracts for material will be let in the fall. The building will be eleven stories high, 98 × 135 ft.

The Heno Real Estate Co. is about to commence the erection of an 8-story brick mercantile building, costing $95,000, at 501-507 North Seventh St.

KANSAS CITY, MO.—The Kansas City Terminal Co., which proposes to erect a Union station here, has been incorporated with a capital of $30,000,000. B. L. Winchell, J. W. Kendrick, A. J. Earling, S. M. Felton, W. B. Scott and F. A Delano, of Chicago; C. S. Clarke and A. J. Davidson, of St. Louis; A. A. Allen, Dallas, Tex., and J. M. Egan, of Kansas City, are the directors.

CLARKSVILLE, ARK.—Bids are asked until July 30, for the erection of the 3-story fireproof Johnson County jail building, 25 × 35 ft. The Southern Steel Co., of San Antonio, Tex., made plans. E. T. McConnell is commissioner.

FORT WORTH, TEX.—The congregation of the First Methodist church will erect a new church edifice to cost $80,000. Smith & Schenk, of Fort Worth, are Archs.

Work will begin soon on a brick and tile factory to be established in this city by E. L. Kounts.

The Elks of this city will erect a building for their society to cost $50,000. Charlie Wheeler is Chn. of the Building Comm.

DALLAS, TEX.—Lang & Witchell, Archs., have plans for the new building to be erected at this city by the Y. M. C. A. of Dallas. Cost, $100,000. Rev. T. C. Horton is Secy.

SEATTLE, WASH.—According to plans recently prepared by Saunders & Lawton, Archs., a convention building will be erected at once at James St. and Third Ave., by the Coliseum Investment Co., of which C. H. Barnett is Pres.

An apartment house to cost not less than $100,000 and to have a frontage on Ninth and Terry Aves. and on Pike St., is planned by R. V. Jones. He states that work will begin at once.

The Sisters of the Order of Holy Names have let the contract for a new school building to cost $150,000 to BREITINGER & BUCHINGER. It will be located on Capitol Hill.

BREMERTON, WASH.—The Otis Elevator Co., 17 Battery Place, New York, was the only bidder for installing an electric elevator in the sheet metal shop, Puget Sound Navy Yard, at $3,750.

UNION, ORE.—J. V. Bennes, Supervising Arch., Baker City, Ore., has awarded the contract for building the Hot Lake Sanitarium near this place, to OLSEN & JOHNSON, of Wallace, Idaho, at about $100,000.

STOCKTON, CAL.—Contracts for the new $110,000 hall have been awarded by the Elks' Hall Association, as follows: A. W. COWELL, brick work; WOODHULL & CRAMER, marble; THE RUHL-GOODELL CO., plumbing; JACKSON & EARLE, electrical work; OTIS ELEVATOR CO., elevators; and the RUSSELL-VAIL CO., heating plant. The concrete work and structural steel contracts were not awarded.

SACRAMENTO, CAL.—Plans will be received by Board of Supervisors for a new modern jail, up to 11 a. m., Aug. 7th. Cost must not exceed $150,000. The architects whose plans are adopted will receive premium of $500. W. B. Hamilton is Clk.

LOS ANGELES, CAL.—James Knox Taylor, Superv. Arch., of the Treasury, Washington, D. C., has awarded to DOUGAN, BRINGHAM & CO., Seattle, Wash., contract for the construction of the new Post-office and Government building at Los Angeles, Cal., at $918,530.

SAN FANCISCO, CAL.—H. Gutzeit will erect a 3-story building at 16th and Guerrero Sts., which will be 170 × 150 ft. Cost about $100,000.

The Warehouse Land & Improvement Co., will erect a brick building to cost $80,000 on Brannann Sts., between First and Second Sts.

HAMILTON, ONT.—Contract for the construction of an armory here has been let to G. F. WEBB, at $220,000.

MONTREAL, QUE.—Henry Birks & Sons will erect a 5-story building at Phillips Square and Cathcart St., to cost $150,000.

MONTREAL, ONT.—Contracts have been awarded as follows for the erection of the $300,000 Grand Trunk Building, on McGill St.: J. H. HUTCHISON, masonry and brick work; LOCOMOTIVE & MACHINE CO., steel work; CLINTON FIREPROOFING CO., fireproofing; SIMPSON & PEEL, carpenter work; CANADA FOUNDRY CO., cast iron and foundry work; CAMPBELL & GILDAY, roofing; W. J. McGUIRE & CO., plumbing and heating; J. MORRISON & SON, plastering; THE OTIS FENSOM ELEVATOR CO., passenger and freight elevators; COOLYER & ROCK, electric wiring; H. MORGAN & CO., painting, and C. MARIOTTI, marble work.

WINNIPEG, MAN.—Bids are asked until July 27, by the Imperial Bank of Canada, for the erection of a bank building to cost about $200,000. Darling & Pearson, Winnipeg, are Archs.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

PORTSMOUTH, N. H.—Bids are asked until 10 a. m., Aug. 14, by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., for installing at the Navy Yard, Portsmouth, two centrifugal pumps.

CROTON FALLS, N. Y.—Bids are asked until noon, Aug. 7, by the Aqueduct Commissioners at their office, 280 Broadway, New York, for constructing a reservoir, including the building of a large masonry dam across the West Branch of the Croton River, an earth diverting dam across the East Branch of the Croton River, and an open connecting channel. The site of the main dam is about one mile by road north of the Croton Falls station of the New York Central & Hudson River R. R., Harlem Division, approximately 48 miles from New York. The site of the diverting dam is about two miles southwest of Brewsters station, on the New York Central & Hudson River R. R., approximately 52 miles from New York. H. W. Walker is Secy.; John F. Cowan is Pres.

FORT TERRY, N. Y.—Bids are asked until noon, Aug. 8 for constructing an extension to water distributing system at Fort Terry, Plum Island. Lieut. R. I. McKenney is Constr. Q. M.

PHILADELPHIA, PA.—Bids are asked until noon, Aug. 8, by Thomas L. Hicks, Dir. Dept. Pub. Wks., for water pipe, stop valves, trenching and laying pipe, Contract No. 69. Specifications and bidding sheet are on file at office of Engineering News, New York. (Advertised, Engineering News.)

Major Cassius Gillette, Ch. Engr. Bureau of Filtration, estimates that the sum required to complete the filter system at Philadelphia is about $4,000,000.

WILMINGTON, DEL.—Bids are asked until 1.30 p. m., Aug. 13, by the Board of Water Commissioners, for constructing and erecting a preliminary filter, reservoir and house for the City of Wilmington. Theodore A. Leisen is Ch. Engr. (Advertised, Engineering News.)

HAGERSTOWN, MD.—Washington County Water Co. has purchased 23 acres of land on the Cearfoss Pike, on which it is stated a reservoir will be located to have a storage capacity of 15,000,000 gallons. Estimated cost, $100,000.

BALTIMORE, MD.—The Baltimore County Water & Electric Co. contemplates laying from 16 to 20 miles of 12-in., 10-in., 8-in. and 6-in. water pipe, and desires reliable contractors who could handle this work, either on a straight out-and-out contract, or on a cost-plus-fixed-sum basis. A. E. Walden is Supt., 411 East Baltimore St.

CHARLOTTESVILLE, VA.—We are officially advised that nothing will be done on the Charlottesville dam and pipe line until fall. D. J. Howell, 605 12th St., N. W., Washington, D. C., is Engr.

LAURINBURG, N. C.—We are officially informed that on July 7 the SOUTHERN CONTRACTING CO., Norfolk, Va., secured contract for laying about 4½ miles of from 4 to 12-in. water mains and about 4 miles of 8 to 15-in. sewers, at $34,000. J. M. Baxley is Engr.

OSYKA, MISS.—Town has voted affirmatively the proposed $25,000 bond issue for the construction of water-works.

PINKIE, LA.—We have been officially advised that on Aug. 10 an election will be held on the question of establishing a municipal water-works system. If carried, a standard system will be constructed, getting its supply from wells. S. E. Schmink is Town Clk.

NASHVILLE, TENN.—The city has voted to issue $25,000 of bonds for water-works and electric light plant.

MALTA, OHIO.—Bids are asked until noon, Sept. 4, by the Board of Public Works, for a pipe system of water-works at Malta. Paul R. Murray, New Philadelphia, is Engr.

GARRETTSVILLE, OHIO.—Bids are asked until noon, Aug. 3, by the Board of Trustees of Public Affairs for constructing certain portions of water-works plant, including pipe and hydrants. A. E. Crane is Pres.; W. E. Agler is Clk.

LOWELLVILLE, OHIO.—Bids are asked until Aug. 2 by the Board of Trustees, of Lowellville Electric Light Works for installing water-works system.

CINCINNATI, OHIO.—At a recent meeting of the Board of Public Service, M. J. Keefe, Clk., the contract for installing an air compressor in the Norwood water-works was awarded to LAIDLAW-DUNN-GORDON CO., at its bid of $8,375. Augustus Herrman is Pres., Comrs. W.-Works.

WAUSEON, OHIO.—At a special election July 16 Wauseon voted $20,000 for the improvement of the water-works system.

WELLSVILLE, OHIO.—Bids are asked until noon, Aug. 3, by the Board of Public Service, C. R. Macgregor, Clk., for constructing 600 ft. of 20-in. c.-i. inflow. (Advertised, Engineering News.)

CASEY, ILL.—The City Council has let the contracts for a complete water-works system here. The contract for building the standpipe was let to the CHICAGO BRIDGE & IRON WORKS, 105th and Throop Sts., Chicago, at $6,600. The contract for the mains and plugs and for laying them was let to the BRYNE CONSTRUCTION CO., of St. Louis, Mo., at $7,400.

PEORIA HEIGHTS, ILL.—The village of Peoria Heights will build a new pumping station at the Tonty and lay a complete new set of mains into the village. Jacob Harmon is Engr.

BOYD, WIS.—Bids are asked until 3 p. m., July 31, for constructing a 40,000-gallon steel tank and steel tower.

GILLETT, WIS.—Bids are asked until 2 p. m., Aug. 1, by L. B. Stuelke, Village Clk., for furnishing 642 ft. of 8-in. pipe, laying same 6½ ft. deep, two hydrants with gate valve and two discharges.

MINNEAPOLIS, MINN.—We have been officially advised that the proposition to issue $1,000,000 of municipal bonds for filtration plant, at Minneapolis, will be submitted to vote of the people at the November election. L. A. Lydiard is City Clk.

FORT SNELLING, MINN.—Bids are asked until 11 a. m., Aug. 9, by Capt. Amos W. Kimball, Constr. Q. M., for constructing addition to pump house, at Fort Snelling, and furnishing boiler and feed water heater and 300,000-gallon steel tank and trestle. This is the second call for bids on this work, the first bids received having been rejected.

AURORA, MINN.—Bids are asked until 8 p. m., Aug. 7, by the Village Recorder, Aurora, for various supplies for water-works system. F. V. Anderson is Clk. Village Council.

MORRILLTON, ARK.—The Morrillton Water-works Co., has been organized here with a capital of $50,000, all subscribed. The stockholders will arrange at once for the construction of a water-works plant.

COLEMAN, TEX.—We are officially advised that E. B. SMITH, of Coleman, was, on July 11, awarded contract to construct earthen dam, which is estimated to cost $10,000. This dam is built by the Coleman Water Supply Co., J. A. B. Miller, Pres., John B. Hawley, Fort Worth, Tex., is Engr.

GALVESTON, TEX.—Bids are asked until noon, Aug. 30, by the City Commissioners for four 200-HP. water tube boilers and one chimney, 72 ins. x 125 ft., to be brick, concrete-steel or a steel stack, for the water-works and electric light plant at Galveston. L. C. Lange is Comr. W.-Wks. and Sewerage; C. G. Wells is City Engr. Specifications and bidding sheet are on file at office of Engineering News, New York. (Advertised, Engineering News.)

KLAMATH FALLS, ORE.—The water system of the Klamath Falls Light & Water Co., H. V. Gates, Pres., will be extended to reach all parts of the city. That, with some electrical work, will cost about $20,000.

SAN JOSE, CAL.—Bids are asked until Aug. 7, by Board of Supervisors of Santa Clara County, Cal., in Court House, San Jose, for construction of pumping station. Henry A. Pfister is Clk.

SAN DIEGO, CAL.—W. C. JACOBS has been let contract for constructing reinforced concrete culvert on H St., between 14th and 15th Sts.

LOS ANGELES, CAL.—Bids are asked until noon, Aug. 2, by T. J. Cochrane, Treas., Pacific Branch, Soldiers' Home, Los Angeles County, Cal., for furnishing and laying 1,350 ft. pipe line.

CARBERRY, MAN.—Carberry will need material for constructing a complete water-works system. Cecil Goddard, Winnipeg, is Des. Engr.

SASKATOON, SASK.—Bids are asked until Aug. 14, by the Mayor, for constructing complete water-works system. Willis Chipman, 103 Bay St., Toronto, Ont., is Des. Engr.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

SWAMPSCOTT, MASS.—Bids received July 20, for constructing sewers in Swampscott, were as follows: M. McDonough, $19,011; William Shea & Sons, $15,484; Sheehan & Belonga, $15,414; P. A. McIntyre & Co., $15,410; C. E. Turnhill & Co., $13,793; Anthony Cefalo, $11,610; J. H. Broderick, $11,212; Geo. M. Bryne & Co., 7 Water St., Boston, $10,322.

TUCKAHOE, N. Y.—Bids are asked by the Village Trustees until July 30 for constructing sewage disposal works and a system of sewers, to consist of about 23,000 lin. ft. vitrified pipe.

BUFFALO, N. Y.—Bids are asked by the Department of Public Works, F. G. Ward, Comr., until 11 a. m., July 30, for the following work: For constructing 5, 4¼, 5¼, 4¾ and 4½-ft. brick sewer in Michigan St., between the Hamburg Canal drain and Genesee St. For constructing a 24-in. brick, 20 and 12-in. tile sewer in Ellicott St., between Broadway and Genesee St. For constructing a 33, 30 and 27-in. brick sewer in the north side of Broadway, between Michigan and Ellicott Sts. For constructing a 4½, 4, 3¾, 3¼, 2½, 2-ft. brick and 15-in. tile sewer in Merrimac, Mildred Sts., Englewood, Deveraux Aves., and easement through private property between Engle St. and Kenilworth Ave. For constructing a 12-in. tile sewer in Margaret St., between Robert and Curtiss Sts.

ROSCOE, PA.—We are officially advised that the contract for the building of three main sewers in the Borough of Roscoe has been let to the CHARLEROI PAVING & CONSTRUCTION CO., their bid being $6,952. Joe T. S. Cowen is Clk.

PHILADELPHIA, PA.—Contracts for the construction and extensions of main sewers in different sections of the city which will involve an expenditure of about $175,000, were awarded by Thomas L. Hicks, Dir. Dept. Pub. Wks., July 17, as follows: Extension of Jackson St. sewer from 36th to 32d Sts., to JOSEPH PERNA, for $42,370; extension on Rising Sun Ave., from Hutchinson to Ninth Sts., and on Ninth St. from Rising Sun to Erie Ave., to RICHARD P. BENNIS, $14,323; Frankford intersecting system, on Wakeling St. from Ditman to Cottage Sts., to HOWARD E. RUCH, $45,841; Cresheim Creek intercepting system, from Moreland Ave. northeast to Willow Grove Ave., to DAVID M'MAHON, $17,025; extension of Whitaker Ave. from Rockland to Louden Sts., and on Louden St. from Whitaker Ave. to Bingham St., and to Wyoming Ave., to DAVID M'MAHON, $24,949; reconstruction of sewer on Market St., from 33d to 36th Sts., and on 33d St. from Market southward about 40 ft., to ROBERT J. RYAN, $22,351; extension of Wissahickon high level intercepting sewer cut-off on line of 24th St. from present terminus of Norristown branch of the Reading Railway across private property to Stokley St., and on Stokley St. to the Richmond branch of the same railway, to RICHARD P. BENNIS, $72,504.

MOUNT GRETNA, PA.—George W. Hayes, of Labanon, Pa., has been engaged to superintend the enlargement of sewage disposal works (sand filtration) for the Pennsylvania Chautauqua, Mount Gretna, Lebanon County. James H. Fuertes, 140 Nassau St., New York, is Consult. Engr.

LAURINBURG, N. C.—See under Water Supply and Irrigation.

PENSACOLA, FLA.—The contract for construction of the sewerage and drainage system, which will cost $307,000, being bid of H. K. STORRIE, of New Orleans, has been signed by the Chairman of the Bond Trustees. T. Chalkley Hatton, of Wilmington, Del., is Engr.

MONTGOMERY, ALA.—The City Council has approved the contract entered into by the Board of Trustees with R. C. CURRIE, of New Orleans, for construction of the sewerage system for $30,000. Work to begin Oct. 1.

BELLEVUE, KY.—J. B. M'LANE & CO., of Newport, on July 7, secured the contract for constructing a sewerage system at $58,816.

CLEVELAND, OHIO.—The contract for the building of the outlet section of the intercepting sewer has been awarded to GRAVES & STEVENS by the Board of Public Service. This firm got the contract on a bid of $78,000 against the next lowest bid of $103,000.

CINCINNATI, OHIO.—We are officially advised that plans have been adopted for the Bond Hill 4-ft. sewer by the City Council. This sewer will extend from Forest Ave. to Bloody Run, 3,140 ft., and will cost $30,000. C. N. Danenhower is City Engr.

KOKOMO, IND.—The Board of Public Works has let a contract to DIXON & HUNT for construction of the Cooper sewer, on the South Side.

INDIANAPOLIS, IND.—Bids have been received, by the Board of Public Works, for construction of 20,420 ft. of sewer in West Indianapolis. The lowest bidder was the JULIUS KELLER CONSTRUCTION CO., at $209,305. Blaine H. Miller is City Engr.

HOUGHTON, MICH.—G. L. Clausen, Village Engr., is reported to have completed plans for the West Houghton sewer system, which he estimates at $20,000.

CRYSTAL FALLS, MICH.—We are officially advised that ANTON HURKMAN, Green Bay, Wis., has been awarded contract for constructing Sewer District No. 2, at Crystal Falls, at $22,988. Other bidders were: Chris Johnson, Oshkosh, Wis., $22,777; James Byers & Co., Houghton, Mich., $41,580; Harding & Nelson, Racine, Wis., $28,291; Green & Sons, Appleton, Wis., $28,507 (informal).

ESCANABA, MICH.—Bids are asked until Aug. 7, by the City of Escanaba, J. J. Burke, Clk., for 4,678 lin. ft. sewers. D. A. Brotherton is City Engr.

POLO, ILL.—Bids are asked until about Aug. 30 for sanitary sewers, 16 to 8 in. diameter. Probable cost, $30,000. J. W. Dappert is Consult. Engr., Taylorville; J. A. Davidson is City Engr.

JANESVILLE, WIS.—Bids are asked until 2 p. m., Aug. 10, by the Street Assessment Committee, for constructing sewers in Sewer Districts Nos. 5, 6, 10, 11, 12, 14 and 15.

CARROLL, IOWA.—Bids are asked until 8 p. m., Aug. 2, by the City Council, for constructing about two miles of from 8 to 18-in. sanitary, with sub-drains, manholes, etc. H. M. Hanssen is City Engr.; George A. Hoffman is City Clk. Bidding sheet is on file at office of Engineering News, New York.

DES MOINES, IOWA.—Bids are asked until Aug. 2, by the Board of Public Works, for 12-in. vitrified clay pipe sewer for East 13th St.

Bids are asked until 11 a. m., July 28, by the Board of Public Works, for the construction of about 2,522 ft. of 18-in. sewer of vitrified clay pipe, about 2,184 ft. of 15-in. sewer, about 5,079 ft. of 12-in. sewer, about 4,644 ft. of 10-in. sewer, about 153 ft. of 8-in. sewer. The work to begin on or before the 12th day of August and to be completed on or before the 26th day of November, 1906.

ST. PAUL, MINN.—Bids are asked until July 30, by the Board of Public Works, J. H. Grode, Pres., for constructing sewers on Grotto, Macalester, Goultier and De Lote Sts., Smith, Selby and Hudson Aves.

LISBON, N. DAK.—Contract for the construction of sewers in sundry streets was let to W. I. GRAY & CO., of Minneapolis, Minn., for $26,000. M. E. Moore is City Audr.

JACKSON, MO.—Contract for sewer system has been awarded to HILL & GAYNARD, of East St. Louis.

MARIANNA, ARK.—We are officially informed that NICK PEAY CONSTRUCTION CO., of Little Rock, Ark., has, on July 14, secured contract to construct sewers in Marianna, at $21,000. Max R. Miller is Chn. Sewer Com., District No. 1.

CLAREMORE, IND. T.—Bids are asked until Aug. 9, by the City of Claremore, for constructing sewer system. W. P. Bullock is Engr., 110 Monroe Ave., Kansas City, Mo.

PORTLAND, ORE.—Bids are asked until Aug. 17, by Thomas C. Devlin, City Audr., for constructing the Brooklyn District Sewer. Plans, specifications and bidding sheet are on file at office of Engineering News, New York. (Advertised Engineering News).

GILROY, CAL.—The contract for digging the sewers and laying sewer pipes for the whole city has been awarded to A. WOLFE, of Watsonville, at $26,000. E. F. Rogers is City Clk.

LOS ANGELES, CAL.—M. L. HOSTETTER has been awarded contract to construct sewer in Tenth St., to cost $17,999. Harry F. Stafford is City Engr.

OGDEN, UTAH.—Bids are asked until Aug. 2, by A. E. Parker, City Engr., for the building tile pipe and concrete block sewers in Sewer District No. 10 of this city.

LEWISTON, IDAHO.—Bids are asked by John E. Nickerson, City Clk., until 4 p. m., Aug. 8, for the construction of the following sewers: 5,300 ft. of 6-in., 27,100 ft. of 8-in., 5,150 ft. of 10-in., 4,150 ft. of 12-in., 2,350 ft. of 15-in., 1,150 ft. of 18-in., 250 ft. of 24-in., 3,100 ft. of 30-in. pipe sewers; 4,920 ft. of 36-in. concrete or brick sewers; 96 manholes and 47 flush tanks. Estimated cost, $125,000. A. N. Miller is Des. Engr.; D. C. Wrighter is City Engr.; John E. Nickerson is City Clk.

EDMONTON, ALTA.—TAYLOR, BOUCHIER & PETERS have secured the following contracts: Concrete trunk sewer along Rat Creek, cost $162,556; concrete sewer on Mackenzie Ave., cost $17,925; pipe work in sub-mains, $12,485.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

WILMINGTON, DEL.—The City Council on July 12 awarded to the WILMINGTON SANITARY CO. the contract for the disposal of garbage for nine years at $33,850 per yr. Contracts for collection of garbage for 3 yrs. were awarded on July 12, as follows: First District, to JOHN H. THOMPSON, at $5,295; Second District, to CHARLES H. COLBURN, $7,831; Third District, to HENRY WETSEL, $9,376, and Fourth District, DANIEL M'CORMICK, $18,310.

CHICAGO, ILL.—BAKE, HALL & CHRISTIAN have contract for garbage reduction, at $47,500 a year, the city to do all carting.

MINNEAPOLIS, MINN.—Bids are asked until July 27, for constructing a garbage crematory at workhouse. The bids received July 13 were rejected. Estimated cost, $5,000. L. A. Lydiard is City Clk.

TEMPLE, TEX.—The city is considering the establishment of garbage crematory.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—WARREN BROS. CO., 93 Federal St., Boston, will lay 4,300 sq. yds. of bithulithic pavement in Huntington Ave. William Jackson is City Engr.

BOSTON, MASS.—The following bids were received July 23, for macadamizing Bennington St.: Jeremiah J. Sullivan, Boston, $29,715; W. H. Gross & Co., Boston, $20,381; Coleman Bros., Boston, $17,168; James Doherty, Boston, $14,118.

NEW HAVEN, CONN.—The City Council has awarded to WARREN BROS. CO., of Boston, a contract for 10,200 sq. yds. of bitulithic pavement. C. W. Kelly, City Engr.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Aug. 6, by John F. Ahearn, Pres. Boro. of Manhattan, for regulating and paving, and repairing asphalt pavements in Manhattan.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Aug. 1, by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating, grading and paving various streets in Brooklyn.

Bids are asked until 3 p. m., Aug. 2, by the Department of Parks, Moses Herrman, Pres., for excavating and grading with top soil the planting spaces on Prospect Park West, Brooklyn.

GREEN ISLAND (Troy post-office) N. Y.—We are officially informed that on July 18, E. KELLY & CO., Green Island, secured contract for paving 17,000 sq. yds. with Mack brick at $2.22 and $2.32 a sq. yd.; and for 7,800 lin. ft. curbing at $6,240.

SYRACUSE, N. Y.—The complete list of bidders for paving several streets in Syracuse will appear in the next issue.

ROCHESTER, N. Y.—The Board of Contract and Supply has let the contract for paving Saratoga Ave. with brick to H. N. COWLES, at $43,235, and the contract for a brick pavement in Merrimac St. to HAGAMAN, MILLER & HAGAMAN at $16,874. The paving of De Jonge St. went to F. A. BROTSCH at $5,733, Culver St. cement walks to J. J. REGAN, and Newton St. walks to RIPTON & MURPHY.

TROY, N. Y.—Bids are asked until July 27, by the Board of Contract and Supply, James M. Riley, Clk., for paving with vitrified brick on portions of Larch and Sixth Aves. and Jacob St. Edward B. Cary is City Engr.

FORT TOTTEN, N. Y.—Bids are asked until 2 p. m., Aug. 6, by Capt. George H. McManus, Constr. Q. M., for constructing about 9,640 sq. ft. cement walk and 64 lin. ft. steps and rivers at this post. (Advertised Engineering News.)

COHOES, N. Y.—Bids are asked until 8 p. m., July 31, by the Common Council for paving and curbing Mangam St., in Cohoes. William J. Elliot is City Clk.; Charles H. Van Anker is City Engr. (Advertised Engineering News.)

BUFFALO, N. Y.—Bids are asked until 11 a. m., Aug. 3, by the Department of Public Works, F. G. Ward, Comr., for constructing 3,999 sq. yds. pavement on Scoville Ave., 3,334 sq. yds. on St. Joseph Ave., and 3,890 sq. yds. on Stanislaus St.

The Commissioner of Public Works has been directed to contract with L. H. GIPP for repaving Tonawanda St., 30 ft. wide, and paving three ft. wider on each side of the present pavement, from the south curb line of Grace St. to the southerly line of O'Neill St., except the space occupied by the tracks of the street railroad company and two ft. outside the same, with round edge fire clay brick, on concrete base, at his bid of $25,919.

TOMS RIVER, N. J.—Bids are asked until noon, July 31, by County Freeholders, James E. Otis, Dir., for constructing seven miles of gravel road. Plans are on file at office of Engineering News, N. Y.

UNION HILL (Weehawken post-office), N. J.—Bids are asked by Town Council until 8 p. m., July 30, for the improvement of Cleveland Place, by grading full width of street, setting bluestone curb on both sides, laying bluestone flagging, and paving roadway with vitrified brick. Bids will be received at the same time for improvement of Van Vorst Place, by flagging sidewalks, setting curb and paving roadway with vitrified brick. Plans, etc., with Emil Bautz, Jr., Clk., Town of Union, Hudson County, Lewis St. and Palisades Ave.

PERTH AMBOY, N. J.—The STANDARD BITULITHIC CO., of New York, will construct 8,000 sq. yds. of bitulithic. Forrest L. Smith is City Engr.

SOUTH ORANGE, N. J.—We are officially advised that DONATO FUSCO, Montclair, N. J., has secured contract for constructing about one mile of Telford pavement, at $21,000.

HAZLETON, PA.—A contract for 8,000 sq. yds of bitulithic has been awarded the STANDARD BITULITHIC CO., of New York. York.

EBENSBURG, PA.—Bids are asked until Aug. 4 by Joseph W. Hunter, State Highway Comr., at Harrisburg, for constructing 5,755 ft. of road in Ebensburg Borough, Cambria County.

HAGERSTOWN, MD.—C. H. HENSON, of Harrisburg, has been awarded by the State Highway Department the contract for reconstructing the Ringgold road, leading south from Waynesboro for a distance of 3½ miles to the Maryland line, at $19,617.

WASHINGTON, D. C.—Bids are asked until noon, Aug. 3, by the District Commissioners, for paving various streets and avenues with sheet asphalt. Henry L. West and John Biddle are Comrs. (Advertised Engineering News.)

Bids were opened July 20, by the Commissioners of the District of Columbia for asphalt paving in the District. Bids were: Cranford Paving Co., Washington, D. C., $1.98 per sq. yd.; brick gutters, $1.35 per sq. yd.; Brennan Construction Co., Washington, $1.65; $3.43 for brick gutters. For the laying of asphalt block pavement, upon which the Washington Asphalt Block & Tile Co., Washington, was the sole bidder, at $1.76 per sq. yd., for 5-in. blocks; $1.60, for 4-in.

SUFFOLK, VA.—The ATLANTIC BITULITHIC CO., of Spartanburg, N. C., has been awarded a contract for 16,440 sq. yds. of bitulithic pavement.

SALISBURY, N. C.—A contract for 25,000 sq. yds. pavement has been awarded to the ATLANTIC BITULITHIC CO., of Spartanburg, N. C.

JACKSONVILLE, FLA.—Bids are asked by the Board of County Commissoners until Aug. 8 for paving a road ¾ of a mile in length, 20 ft. wide, with flint rock. County to do all grading. F. J. Hyde is Chn. of Bd.

We are officially informed that bids will be

called for during September for about 182,508 ft. of brick paving, to cost about $284,961. Philip Prioleau is City Engr.

MEMPHIS, TENN.—Bids are asked until noon, Aug. 9, by the City Recdr., for paving certain streets in Memphis. Plans, specifications and bidding sheet are on file at the office of Engineering News, New York.

PADUCAH, KY.—The City of Paducah desires plans and estimates for an iron bridge 280 ft. long, with a 26-ft. carriage way, and 5-ft. sidewalks on each side. The bridge is to have an average height of 25 ft. L. A. Washington is City Engr.

LOUISVILLE, KY.—Bids are asked by Board Public Works, Roger G. McGrath, Sec., until noon, July 27, for the work under 25 contracts for street improvements, by paving and repaving with brick.

MARIETTA, OHIO.—Bids are asked until noon, Aug. 4, by the Board of Public Service, A. W. Tompkins, Clk., for about 13,600 of block paving. A. F. Cole is Engr. Bd. of Pub. Wks.

CINCINNATI, OHIO.—The bids received July 20 by the Board of Public Service, M. J. Keefe, Clk., for grading, curbing and paving with granite on Water St. were as follows: The Kerchuer Construction Co., Eighth and Plum Sts., $14,707; William Fogarty, 2550 Burnet Ave., $13,818; Henry Dukmeier, 209 15th St., $16,125; William Heffner Construction Co., 810 Dean Bldg., $14,173; William Scully, Jr., Atlas Bank Bldg., $14,002; Henkel & Sullivan, 707 Mercantile Library Bldg., $14,223.

DELAWARE, OHIO.—The contract for construction of the Harlem and Center Village road which is located in Harlem Township, has been awarded to NORRIS & CHRISTIAN, at $31,691. The road is 7½ miles in length.

We have been officially informed that on July 11 the CENTRAL OHIO LIME & STONE CO. secured contract for improving the Lewis and Shoemaker road. E. S. Mendenhall is County Surv.

PORTSMOUTH, OHIO.—Bids are asked until noon, Aug. 11, by the Board of Public Service, for grading, paving and curbing various streets in Portsmouth. Charles F. Schirrmann is Clk.; R. A. Bryan is Engr.-in-charge street paving.

CLEVELAND, OHIO.—Bids are asked by the County Commissioners, Julius C. Dorn, Clk., until 11 a. m., Aug. 14, for the completion of the grading of Granger Hill in accordance with the form of contract and specifications to be furnished by William H. Evers, County Engr.

PLEASANT RIDGE, OHIO.—Bids are asked until noon, Aug. 7, by the Board of Council, W. C. Davies, Clk., for grading and macadamizing Cypress Ave.

RAVENNA, OHIO.—Bids are asked until Aug. 7, by Sam Huston, State Highway Comr., Columbus, for constructing a highway at Ravenna. We are officially informed that a number of roads will be constructed this season.

CINCINNATI, OHIO.—Bids are asked until noon, Aug. 10, by the Board of Public Service, M. J. Keefe, Clk., for grading, setting curb and paving with granite, Dayton St. Estimated cost, $9,147.

COVINGTON, IND.—We are officially advised that the City Council will advertise very soon for about 12,000 sq. yds. of vitrified brick paving. W. B. La Baw is Engr., Veedersburg, Ind.

SHELBYVILLE, IND.—A contract for 41,391 sq. yds. bitulithic pavement has been awarded the HOOSIER CONSTRUCTION CO., of Indianapolis, Ind.

ROCKVILLE, IND.—Bids are asked by the Commissioners of Parke County, until 1 p. m., Aug. 8, for construction of a gravel road in Penn and Reserve Townships, and also for the construction of a certain gravel road in Adams and Washington Townships, said roads to be graded, drained, straightened, bridged and graveled. Henry Grub is County Audr.

COLUMBUS, IND.—Bids are asked by the Commissioners of Bartholomew County until 10 a. m., Aug. 6, for the construction of a gravel road in Rock Creek Township. Length of the road, one mile. William A. Morris, County Audr.

KOKOMO, IND.—The Board of Public Works has awarded a contract for paving Walnut St. with asphalt to the UNION ASPHALT CONSTRUCTION CO., of Indianapolis.

BROOKVILLE, IND.—Bids are asked by the Commissioners of Franklin County until 1 p. m., Aug. 6, for 1½ miles of gravel road in Ray Township, according to plans and specifications. Chas. A. Miller, County Audr.

PETERSBURG, IND.—Bids are asked by the Commissioners of Pike County until 2 p. m., Aug. 7, for construction of two gravel roads in Washington Township; one, four miles and the other 2½ miles in length. T. W. Bassinger is County Audr.

WHEATON, ILL.—The lowest of 15 bids for the first street improvement district was that of H. G. Goeltz, of Oak Park, Ill., $55,373. The cost of the entire improvement is estimated at $250,000. C. A. Prout is City Engr.

AURORA, ILL.—Contract for 14,663 yds. brick pavement on South Lake St. has been let to J. A. HEINEMAN, Chicago, at $24,853, and R. S. SAFFORD, Aurora, has secured the contract for 8,260 for curb and gutter, at $4,087. Myron J. Tarble is City Engr.

CHENOA, ILL.—Chenoa has let the contract for cement walks in the business portion of the city to RUDOLPH S. BLOME CO., 79 Dearborn St., Chicago, for $10,000.

CENTERVILLE, IOWA.—The DAVENPORT CONSTRUCTION CO., Davenport, has been awarded contract for constructing about two miles of brick paving, at $90,000. F. H. Bartemeyer is Pres.

ST. PAUL, MINN.—Bids are asked until July 30, by the Board of Public Works, J. H. Grode, Pres., for paving Rosebal St., from Eighth to Ninth Sts.; curbing and macadamizing Carroll St.; curbing and grading Selby Ave., from Victoria to Chatsworth Sts., and grading Walsh Ave.

WICHITA, KANS.—The KANSAS BITULITHIC CO., of Kansas City, Mo., has been awarded a contract for 19,365 sq. yds. of bitulithic pavement.

EMPORIA, KANS.—HASKINS & RAMSEY, of Topeka, have secured a contract for paving and curbing in Emporia which amounts to $66,030. They have filed bonds to that amount which provide for six different pieces of work. The bonds have been approved and are now on file in the office of the District Clerk of Lyon County.

ST. LOUIS, MO.—Additional contracts for 38,005 sq. yds. of bitulithic pavements have been awarded the GRANITE BITUMINOUS PAVING CO., of St. Louis.

KANSAS CITY, MO.—GEORGE W. SHAW, of Independence, Mo., has contract for repairing the Raytown rock road. About $25,000 will be expended.

PUEBLO, COLO.—A contract for 24,348 sq. yds. of bitulithic pavement has been awarded the WARREN BROTHERS CO., 93 Federal St., Boston.

NORTH YAKIMA, WASH.—The County Commissioners and J. M. Snow, State Highway Comr., have let contract for building a State road to Bumping Lake to CHARLES LUM, of North Yakima, at $19,000. There are about 29 miles to be built.

PENDLETON, ORE.—A contract for 20,441 sq. yds. of bitulithic pavement has been awarded the WARREN CONSTRUCTION CO., of Portland, Ore.

SAN FRANCISCO, CAL.—Bids will be received in about 30 days, by the City and County of San Francisco, for paving Market St., from Second to East Sts., to cost about $86,000. Thomas P. Woodward is City Engr.

AMHERST, N. S.—The WARREN BITULITHIC CO. is reported to have secured the contract for paving portions of several streets at $2.75 per yd., or a total of $40,000.

NORTH TORONTO, ONT.—Bids are asked until 7 p. m., July 27, by W. J. Douglas, Clk. and Treas., for constructing tar, gravel and plank sidewalks in this town.

NORTH BAY, ONT.—We have been officially informed that S. J. BARBER & CO., of Guelph, have been awarded contract for constructing sidewalks, at $6,000. L. O. Clarke is Town Engr.; M. W. Flanner is Clk.

LONDON, ONT.—The following contracts have been let: Asphalt, King St., to BLIGHE & FELDER, Chatham, $8,372; brick, York St., FOREST CITY PAVING CO., London, $10,990; brick, Talbot St., GEARY & LEWIS, London, $4,420. William Graydon is City Engr.

ST. CATHARINES, ONT.—LANGLEY & COOK have secured contract for laying block pavement on Church St.

REGINA, SASK.—The WARREN BITUMINOUS PAVING CO., of Toronto, Ont., has been awarded a contract for 15,000 sq. yds. bitulithic pavement.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

FALL RIVER, MASS.—Small Bros. are arranging to make an addition to their millbanding and rope manufacturing plant. A 2-story brick building, 39 × 76 ft., is to be built close to the present structure.

PAWTUCKET, R. I.—The Providence Braid Co. will erect a large mill at this place and remove its plant from Providence.

PASCOAG, R. I.—The Pascoag Realty Co. has awarded the contract for a new mill for the manufacture of worsteds, and work will be begun on the structure this week. Fred L. Sayles is Pres. The plant, when completed, will be leased to the Hawthorn Worsted Co., which is composed of Samuel Mellor, of Pascoag, and Paul A. Swartz, of Harrisville.

HARTFORD, CONN.—The American Cigar Co. will immediately erect its big tobacco plant near Windsor Ave., in this city. The permits call for a concrete warehouse 77 × 141 ft, three stories high; a sorting house, 61 × 260 ft., one story high, and a boiler house, 23 × 40 ft., one story high. A spur track from the Hartford division of the New York, New Haven & Hartford R. R., will run into the plant.

MOUNT VERNON, N. Y.—Mayor Brush has awarded the contract for constructing the ice plant here to the DE LA VERGNE MACHINERY CO., of East 138th St., New York, and it is expected that work will be begun at once. The plant will cost about $50,000, and will turn out 50 tons of ice a day. The plant must be finished within 60 days after work has begun.

PHILADELPHIA, PA.—The Luzerne Silk Throwing Co. is planning extensive additions to its plant. About $25,000 will be expended.

PITTSBURG, PA.—Henry Rea, Jr., 435 Neville St., will build a 6-story reinforced concrete manufacturing building at Gas Alley and Second Ave.

SCRANTON, PA.—Work will soon be started on a bottling plant for the Pennsylvania Central Brewing Co. Complete equipment required.

The Van Dyke Piano Co. will build a $50,000 addition to its plant here.

READING, PA.—Geo. B. Horst will erect a 4-story glove factory, 50 × 200 ft., in this city.

PHILADELPHIA, PA.—F. S. MAGUIRE, 1710 Sansom St., has been awarded the contract to build an addition to the car repair shops of the Philadelphia Rapid Transit Co., at Sargent St. and Kensington Ave.

WILMINGTON, DEL.—The Delaware Hosiery Manufacturing Co., 409 East 13th St., will erect a hosiery mill and dye house, to cost $50,000, at 15th and Walnut Sts.

MANCHESTER, VA.—The construction of a new factory, 150 × 300 ft., for the manufacture of safes and locks, is proposed by the R. L. Barnes Safe & Lock Co., Richmond, Va.

ATLANTA, GA.—The erection of a new plant, to cost about $100,000, is proposed by the DeLoach Mill Manufacturing Co., manufacturers of sawmill machinery.

DELPHOS, OHIO.—J. T. HORINE & SON have received a contract from the Delphos Can Co. to erect two brick buildings as an addition to their plant in this city.

CLEVELAND, OHIO.—Robert D. Kohen, Arch., of New York, has completed plans for a new 3-story reinforced concrete factory building on Superior St., for H. Black & Co. Work is to be commenced at once.

MIDDLETOWN, OHIO.—Schartle Brothers Machine Co. will erect an addition to its machine shop to cost $600,000. Edward H. Reed, Cincinnati, Ohio, is Arch.

HAMILTON, OHIO.—The contract for the erection of a brick structure 80 × 200 ft., for the Victor Foundry & Manufacturing Co., has been let to A. WILLIAMS, of Cincinnati, Ohio.

NORWOOD, OHIO.—The Globe Wernecke Co. has increased its capital stock $250,000 and will erect a number of new buildings.

INDIANAPOLIS, IND.—The National Biscuit Co. will erect a 4-story factory at Pine and Daly Sts., 115 × 157 ft. The cost will be $100,000.

COLUMBUS, IND.—The American Harness & Leather Co. has ordered plans prepared for the rebuilding of the company's plant in this city. Estimated cost, $80,000.

INDIANAPOLIS, IND.—The Fairbanks-Morse Electric Manufacturing Co. has purchased the Commercial Electric Co.'s plant in this city and announces that it will erect and install an addition to double the present capacity of the plant. C. H. Morse is Pres.

MOUNT VERNON, IND.—The Mount Vernon Straw Board Co. will receive bids for the erection of an addition to its plant as soon as plans are completed. Harris & Shopbell, Evansville, are Archs.

PERU, IND.—Contract for the erection of a refrigerator addition to the plant of the Indiana Manufacturing Co. has been let to J. B. GOODALL & CO.

MENOMINEE, MICH.—E. P. SPALDING, 807 Ogden Ave., has secured the contract for the construction of the new 3-story addition, 45 × 143 ft., for the Richardson Shoe Co. Derrick Hubert is Arch.

DETROIT, MICH.—Fred B. Stevens, Third and Larned Sts., has purchased a site and will build and equip a mill for the manufacture of foundry facings, to be 3-story, 163 × 80 ft., of heavy mill construction. Estimated cost, $75,000.

LANSING, MICH.—The contract for the erection of a brass foundry for the Gerson-Carey Co. has been let to JOHN B. SULLIVAN. The building will be of brick, 30 × 105 ft.

FREEPORT, ILL.—U. M. Dustman, Arch., is preparing plans for two new buildings, one 5-story, 120 × 96 ft.; the other 3-story, 120 × 90 ft., for the Henney Buggy Co. Estimated cost, $50,000.

W. H. Shons has commenced excavations on the main building, 60 × 170 ft., to be erected by D. C. Stover & Co., in East Freeport. Three of four buildings for the manufacture of marine gasoline engines will be erected at a cost of about $60,000.

CHICAGO, ILL.—The Illinois Vinegar Manufacturing Co., 19th and Rockwell Sts., contemplates the erection of a large plant, having purchased for a site practically the entire block between 48th St. and 48th Place, Oakley Ave. and Leavitt St. It will be 3-story, of mill construction, and is estimated to cost $100,000.

MILWAUKEE, WIS.—It is reported that the Allis-Chalmers Co. will build large additions to its plant here.

FORT DODGE, IOWA.—The Sackett Wall Board Company, 17 Battery Place, New York, will build a factory 1,000 × 200 ft., at this place.

MASON CITY, IOWA.—The Kansas Portland Cement Co. will erect a 3,000-bbl. cement mill here.

FREMONT, NEBR.—The Sure Hatch Incubator Co. will erect a new 2-story plant, 62 × 200 ft., at this place. O. F. Turner is a member of the Board of Directors.

GREAT FALLS, MONT.—It is reported that the Patton & Leihy Co. will establish a hat factory here within the next two months.

LITTLE ROCK, ARK.—Several buildings, kilns, etc., will be erected by the Arkansas Soapstone & Refractories Manufacturing Co. Robert Kunstman, Moore & Turner Bldg., is Secy. and Mgr.

FORT SMITH, ARK.—It is reported that R. E. Abbott, of Boston, will erect a cotton mill here, capitalized at $800,000.

SAN ANGELO, TEX.—The San Angelo Cotton Oil Co. has been organized here with a capital stock of $50,000. Cotton seed oil mills will be established here and in Irion, Scheicher, Sterling, Reagan, Runnels, Cocho and Tom Green counties. George J. Bird, of San Angelo, is one of the incorporators.

MONTREAL, QUE.—The Dominion Textile Co. will erect a 7-story mill building at a cost of $50,000.

The Dominion Steel Car Co. will erect an addition to its shops, 600 × 150 ft., to cost $60,000.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

CONCRETE DOCK.—Michigan City, Ind.—Bids are asked until Aug. 2 for the construction of 1,200 ft. of concrete dock. H. M. Miles is City Engr.

WHARF.—Cross Point, Que.—F. Gelinas, Department of Public Works, Ottawa, will receive bids until Aug. 2, for building an extension to wharf.

PIER.—Boston, Mass.—GERRY & NORTHRUP, 458 Harrison Ave., have secured the contract for constructing a new pier at Clyde St. for the Boston & Albany R. R. Co. Cost, about $200,000.

DITCH.—Breckenridge, Minn.—Bids will be received by R. P. Glover, County Auditor, on July 31, for digging and constructing Ditch No. 3, of Wilkin County.

DRAIN.—Eldorado, Iowa.—Bids are asked until 1 p. m., Aug. 6, for construction of tile drain in Hardin County Drainage District No. 2. Jay S. Newcomer, County Audr.

DRY-DOCK.—St. John, N. B.—George Robertson, M. P. P., Pres. of the Imperial Dry-dock Co., of this city, is interested in project to build a 650-ft. dry-dock at this port.

CANAL.—Marked Tree, Ark.—ERNEST RITTER, of Marked Tree, is reported to have secured the contract for constructing a canal in Drainage District No. 1, at 12 cts. per cu. yd.; total cost, $41,600.

LEVEE AND CHANNEL.—Pittsfield, Ill.—A. V. WILLS & SONS, of Pittsfield, have secured the contract for building levees and digging channel for the McGee Creek Levee and Drainage District, at $107,000.

UNDERGROUND CONDUITS.—Evansville, Ind.—The ABBOTT-GAMBLE CO., 31 Broadway, New York, has the contract for construction of underground conduits for the Evansville Telephone Co. Cost, about $40,000.

TIMBER WHARF.—Seattle, Wash.—Bids are asked until 10 a. m., Aug. 7, for erection of a timber wharf on the Magazine reservation, Ostrich Bay, Wash. H. T. B. Harris, Paymaster-Gen., U. S. Navy, Washington, D. C.

FREIGHT BOATS.—Toledo, Ohio.—The TOLEDO SHIPBUILDING CO. has been awarded contract to build two freighters for H. S. Wilkinson and L. C. Smith, of the U. S. Transportation Co. Estimated cost is $350,000 each.

LEVEE.—New Orleans, La.—Bids are asked by Capt. J. F. McIndoe, Engr., 3232 Prytavia St., New Orleans, until 11 a. m., Aug. 9, for constructing about 316,000 cu. yds. of levee work at Bougere, in the Lower Tensas Levee District.

GRADING, STEEL BARS.—Billings, Mont.—Plans and specifications are on file at New York office of Engineering News for grading and steel reinforcing bars, Shoshone project. Bids are asked until Aug. 23, as advertised in Engineering News.

DITCH.—Moorhead, Minn.—Bids are asked until Aug. 7 by John Eid, County Auditor, for digging and construction Ditch No. 9, containing approximately, main ditch 36,100 ft. long, 56,093 cu. yds. dirt to be removed. Estimated cost, $5,609.

TUNNEL.—Boston, Mass.—Bids are asked until noon, Aug. 7, by the Boston Transit Commission, B. Leighton Beal, Secy., for constructing part of Section 10 of the Washington St. tunnel in Haymarket Sq. (Advertised Engineering News.)

CANAL AND LEVEE.—Grosse Tete, La.—Bids are asked until Sept. 15 by Rev. F. Badeaux, Grosse Tete, Secy. Bayou Catfish Drainage Dist Comn., for construction a drainage canal and levee 9½ miles in length, from Rosedale to Bayou Catfish.

GRADING.—Cairo, Ill.—The Carroll Contracting Co. desires to let contract for 600,000 yds. of machine, wheeler and slip railroad work, in quantities to suit outfits. Address A. M. Hoolan, Halliday Hotel, Cairo. (Advertised Engineering News.)

PORTLAND CEMENT.—Portland, Ore.—Bids are asked until 3 p. m., Sept. 18, by the U. S. Reclamation Service, for furnishing 27,000 bbls., more or less, of Portland cement, f. o. b. cars at manufacturers' shipping point. (Advertised, Engineering News.)

LEVEES, DRAIN.—Savanna, Ill.—Bids are asked until 2 p. m., Aug. 1, for two levees, emergency gate, and drain pipe for town of Washington, Ill. Miller & James, Matoon, Ill., are Engrs. Specifications are on file at office of Engineering News, New York.

CANALS AND DITCHES.—Williston, N. Dak.—Plans and specifications for the construction of canals and ditches, Williston Project, are on file at New York office of Engineering News. Bids are asked until Aug. 30, as advertised in Engineering News.

LEVEE.—Vicksburg, Miss.—Bids are asked until noon, July 30, by J. Q. Graves, Pres. Bd. Comrs., Tensas Basin Levee District, at U. S. Engineer Office, Vicksburg, for construction of Section 2, Chicot Front Levee, Desha County, Ark. Approximately 215,000 cu. yds.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until 10 a. m., Aug. 7, and until same time on Aug. 14 and Aug. 21, by the Bureau of Supplies and Accounts, Navy Dept., for quantities of naval supplies at various naval stations and navy-yards. H. T. B. Harris, Paymaster-Gen.

DREDGING.—Milwaukee, Wis.—Bids are asked until 9 a. m., July 28, by Board of Supervisors of Greenfield, Wis., at office of W. H. Dick, Town Clk., 1317 Forest Home Ave., Milwaukee, for dredging about 6½ miles of Root River. Estimated quantity to be excavated is 129,500 cu. yds.

FIRE ENGINES, FIRE BOATS.—New York, N. Y.—Bids are asked by John H. O'Brien, Fire Comr., until 10.30 a. m., July 31, for furnishing one extra first size steam fire engine and for one first size steam fire engine; also for constructing and delivering three steel screw propelling fire boats.

FERRY BOAT.—Seattle, Wash.—E. W. HEATH, of Tacoma, Wash., has been awarded the contract by the West Seattle Land & Improvement Co. for building a ferry boat to be operated between Seattle and West Seattle in connection with the ferry now running there. It will cost approximately $40,000.

AIR COMPRESSORS.—Charleston, S. C.—Two bids were received by the Bureau of Yards and Docks, Navy Dept., on July 21, for two air compressors and accessories at Charleston Navy-Yard. The bids were as follows: (a) Ingersoll-Rand Co., 11 Broadway, New York; (b) Joseph L. Swigard & Co., 1119-1120 Betz Bldg., Philadelphia, Pa. Item 1 (a) $25,500; (b) $31,769. Item 2 (a) $25,500; (b) $32,259. Item 3 (a) $21,479; (b) $28,856. Item 4 (a) $21,479; (b) $28,856.

DITCH.—Hood River, Ore.—The Hood River Irrigation Co. has let a contract to H. A. MOORE to build a 13,000-ft. lateral from the Jordon place, in the Dry Chute, near Crapper district. This will supply water to the Jordan and Castner districts. The company has several miles of main ditch work to let yet.

DITCH.—Fairmount, Minn.—Bids will be received until July 31 by P. D. McKellar, County Auditor, for digging and constructing Judicial Ditch No. 1 of Martin and Jackson Counties; there is, approximately, 51,777 cu. yds. of earth to be removed and a highway bridge to be constructed. The cost is estimated at $11,161.

EXCAVATION.—Sandusky, Ohio.—The following are the bids opened on July 11 by the Board of Public Service, for excavating about 22,000 cu. yds. of rock and 7,500 cu. yds. clay and sand from Sandusky Bay (price given per cu. yd.): M. Sullivan, Buffalo, $5.30; the Great Lakes Dredge & Dock Co., Chicago, Ill., $5.90. Noted on July 5.

STONE PROTECTION.—St. Catherines, Ont.—J. Weller, of St. Catherines, Supt. Engr. of Welland Canal, states that the contract for placing stone protection along portions of Welland Canal between Thorold and Port Colborne (bids opened July 5), has been awarded to JOS. BATTLE, of Thorold, for $17,800. Noted in Engineering News on July 5th.

BOILERS, ETC.—Washington, D. C.—Bids are asked until 10 a. m., July 31, by Bureau of Supplies and Accounts, Navy Dept., for furnishing at the navy-yards, Boston, Mass., and New York, N. Y., for the U. S. S. "New York" and "Massachusetts," respectively, a quantity of marine straight water-tube boilers, with superheaters and spare parts. H. T. B. Harris, Paymaster-Gen.

STORAGE WORKS.—Concully, Wash.—Bids are asked until 3 p. m., Sept. 1st, by the U. S. Reclamation Service, at Portland, Ore., for construction of storage works near Concully, Wash., including about 155,000 cu. yds. of earth excavation, 4,000 cu. yds. of rock excavation, 160 ft. of tunnel, 1,600 cu. yds. of concrete. Thos. Ryan, Acting Secy., Dept. Interior, Wash. (Advertised, Engineering News.)

DAM.—Hermiston, Ore.—Bids are asked until 3 p. m., Sept. 17th, by the U. S. Reclamation Service, at Portland, Ore., for building the Cold Springs dam, near Hermiston; including about 694,000 cu. yds. of earth and gravel excavation, about 3,100 cu. yds. of rock excavation, about 3,110 cu. yds. of concrete, and about 35,000 cu. yds. of riprap and rock fill. (Advertised, Engineering News.)

DAM.—Chicago, Ill.—Two bids were received on July 18 for the construction and completion of an emergency butterfly dam in the main channel of Sanitary District of Chicago for the water-power development of the Sanitary District of Chicago, Lockport, Ill. The bidders were: The Strobel Steel Construction Co., of Chicago, $200,891; Chicago Bridge & Iron Works, Chicago, $205,445. Itemized bids may be seen under Contract Prices in this issue of Engineering News.

DAM APRON.—Albany, N. Y.—Bids are asked until noon, Aug. 7, by N. V. V. Franchot, Supt. Public Wks., for constructing a new apron on the dam on the St. Regis River at Brasher Falls, St. Lawrence County, N. Y. Estimated quantities are as follows: Bailing and draining—11,000 ft. B. M. removing old timber; 6,000 lin. ft. round timber in cribs; 740 cu. yds. loose stone filling; 300 cu. yds. rock face riprap; 42,400 ft. B. M. hemlock; 7,600 lbs. wrought iron; 13,205 lbs. steel plates.

RAILWAY GENERATOR, ELECTRIC LOCOMOTIVES.—Farmington, Mo.—We are advised that the St. Louis Smelting & Refining Co., St. Louis, Mo., is receiving bids through its consulting engineer, Henry Floy, 220 Broadway, New York, for the following apparatus to be installed at its plant, St. Francois, Mo.: 250-KW. railway generator direct connected to a 16" and 30" by 42" cross compound 90 r. p. m. condensing engine; switchboard and additional storage battery and five electric locomotives.

WIRELESS INSTRUMENTS.—Washington, D. C.—The Navy Pay Office, Washington, D. C., has awarded contracts for furnishing six sets of wireless telegraph instruments for the Washington Navy Yard. The contracts were awarded as follows: One set, STONE TELEGRAPH & TELEPHONE CO., 31 State St., Boston, $4,000; two sets, TELEFUNKEN WIRELESS TELEGRAPH CO., 1001 Chestnut St., Philadelphia, $4,000 each; three sets, INTERNATIONAL TELEGRAPH & CONSTRUCTION CO., Broad St., New York, $3,750.

DREDGING. — Boston, Mass. — Bids are asked until noon, Aug. 8, for strengthening the jetties, dredging the channel and anchorage basin and riprapping their banks at Menamsha Inlet in the towns of Chilmark and Gay Head. The work to be done is the furnishing and placing of about 5,500 tons of granite quarry grout and riprap, dredging about 28,000 cu. yds. of material and depositing it at sea, also the removal of one large boulder. Frank W. Hodgdon, Ch. Engr., Bd. Harbor and Land Comrs. Plans and specifications for this work are on file at office of Engineering News. (Advertised Engineering News.)

CANALS.—Billings, Mont.—Bids were received as follows on July 11 for Division 1, Garland Canal, Shoshone Project: (1) Jesse W. Crosby, Jr., Cowley, Wyo.; (2) Nels L. Olsen, Butte, Mont.; (3) Billings Construction Co., Billings; Schedule 1, Section 2, (3) $125,661. Schedule 2, Section 3, (3) $58,619. Schedule 3, Section 4, (3) $32,407; (1) $37,022. Schedule 4, Section 6, (3) $24,980. Schedule 5, Section 7, (1) $29,800; (3) $24,990. Schedule 6, Section 8, (3) $31,617. Schedule 7, seven miles of canal (2) $270,746 (for entire work or none). The bids of the Billings Construction Co. were contingent upon the company being awarded schedules 1 and 2. The bids in detail will be given next week in Engineering News under Contract Prices.

CANAL WORK.—Glendive, Mont.—The Secretary of the Interior has vacated the award of contract recently made to D. M. Freeman & Co., of St. Cloud, Minn., for the construction of Division No. 3, main canal, Lower Yellowstone Project, N. Dak. and Mont., and has awarded the contract to NEWMAN & HOY, St. Paul, Minn. Division 3 consists of nine miles of canal, involving 1,088,800 cu. yds. of excavation, and furnishing such material and doing such work as may be necessary for the completion of the work.

The same firm has received a contract for the construction of the Lower Yellowstone dam, Lower Yellowstone Project. This dam is to be a rock-filled, timber cribbed structure, requiring about 500,000 ft. of lumber, 700 piles, 1,600 sheet piles, 11,000 cu. yds. of rock filling and riprap, and 80 tons of steel. It is located about 18 miles northeast of Glendive, Mont. The bid of Newman & Hoy was $133,665. According to the terms of the contract the dam and all necessary accessory structures must be completed by Feb. 1, 1908.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

RETAINING WALLS.—Catlettsburg, Ky.—The itemized bids received by Major J. G. Warren, Engrs., Cincinnati, Ohio, on June 29, for constructing guide and retaining walls and paving at Lock No. 1, Big Sandy River, Catlettsburg, were as follows: (1) Louis H. Wendt, Newport, Ky.; (2) The Pitt Construction Co., Pittsburg, Pa.; (3) H. E. Talbott & Co., Dayton, Ohio; (4) BAKER CONTRACT CO., Pittsburg, Pa. (awarded contract).

BIDS RECEIVED ON JUNE 29TH, 1906, FOR RETAINING WALLS, ETC., AT CATLETTSBURG, KY.

Items.	Quantity.	(1)	(2)	(3)	(4)
Plan 1.					
Excavation	10 000 cu. yds.	$0.80	$1.60	$0.70	$0.80
Embankment	4 000 "	.80	.50	.70	.55
Concrete	4,000 "	9.00	7.00	8.80	8.50
Ballast	100 "	2.00	.60	1.50	2.50
Riprap	1,200 "	2.50	4.50	2.00	3.00
Steel	4,000 lbs.	.04	.03	.05	.05
		$50,560	$51,580	$47,750	$48,250
Plan 2.					
Excavation	10,000 cu. yds.	$0.80	$1.60	$0.70	$0.80
Embankment	4,000 "	.80	.50	.70	.55
Concrete	3,390 "	10.50	7.50	10.25	9.50
Ballast	100 "	2.00	.60	1.50	2.50
Riprap	1,200 "	2.50	4.50	2.00	3.00
Steel	70,000 lbs.	.04	.04	.04	.06
		$52,795	$51,685	$49,897	$50,455
Plan 3.					
Excavation	10,000 cu. yds.	$0.80	$1.60	$0.70	$0.80
Embankment	4,000 "	.80	.50	.70	.55
Concrete	3,310 "	10.15	7.50	10.50	9.50
Ballast	100 "	2.00	.60	1.50	2.50
Riprap	1,200 "	2.50	4.50	2.00	3.00
Steel	43,000 lbs.	.04	.04	.04	.06
		$49,716	$50,005	$48,825	$48,075
Paving.					
Paving	300 cu. yds.	$9.00	$7.00	$14.00	$8.50
Ballast	450 "	2.00	.60	1.50	2.50
		$3,600	$2,370	$4,875	$3.675

SEWERS.—Crystal Falls, Mich.—Bids were received on July 16 for construction of sewers in Sewer District No. 2. E. G. Bradbury, Columbus, Ohio, is Engr. The bids in detail were as follows: (a) ANTON HURKMAN, Green Bay, Wis. (awarded contract); (b) Chris. Johnson, Oshkosh, Wis.; (c) James Byers & Co., Houghton, Mich.; (d) Harding & Nelson, Racine, Wis.; (e) Green & Sons, Appleton, Wis. (bid was informal): 500 cu. yds. earth excavation—(1) 43 cts., (2) $1.10; 3,500 cu. yds. rock excavation—(1) $2.90, (2) $2.21; 8,400 sq. ft. channeling in rock—(1) 53 cts., (2) 55 cts.; 3,300 cu. yds. (No. 1) Portland cement concrete—(1) $7.68, (2) $7.70; 3,200 cu. yds. (No. 2) Portland cement concrete—(1) $6.15, (2) $6.60; 500 cu. yds. (No. 3) Portland cement concrete—(1) $4.80, (2) $6.32; 200 cu. yds. mortar for filling, grouting and lining—(1) $21.50, (2) 10 cts.; 10,000 lbs. iron castings—(1) 7 cts., (2) 8 cts.; 500 lbs. cast-iron counterweights—(1) 3 cts., (2) 3 cts.; 6,000 lbs. phosphor and Tobin bronzes—(1) 60 cts., (2) 45 cts.; 30,000 ft. B. M. timber and lumber—(1) $60, (2) $50; complete electrical equipment, lump sum—(1) $4,100, (2) $4,500; machinery house and two shaft houses, lump sum—(1) $2,500, (2) $1,500; waterproofing for tunnel and shafts, 1,050 sq. yds. (not included in total bid)—(1) $1.75, (2) $1.37. Total bid: (1) $200,891; (2) $205,445.

BIDS RECEIVED ON JULY 16, 1906, AT CRYSTAL FALLS, MICH., FOR SEWERS IN SEWER DISTRICT No. 2.

Items.	Quantity.	(a)	(b)	(c)	(d)	(e)
Earth excavation	13,800 cu. yd.	$0.43	$0.55	1.38½	$0.50	$0.45
Rock "	100 "	1.87	10.00	2.98¾	5.50	3.90
6-inch sewer	535 feet.	.16	.18	.16	.20	.25
8 " "	2,955 "	.22	.23	.26	.31	.37
10 " "	460 "	.29	.31	.38	.40	.39
12 " "	1,505 "	.37	.41	.52	.64	.66
15 " "	2,105 "	.47	.65	.71	.70	.78
18 " "	1,815 "	.61	.85	.92	.94	.96
22 " "	269 "	.81	1.35	1.47	1.34	1.20
24 " "	1,460 "	1.13	1.48	1.76	1.56	1.44
36 " "	1,976 "	3.65	4.12	3.60	4.00	4.15
Brick Masonry	25 cu. yds.	15.00	15.00	12.00	15.00	15.00
Concrete "	35 "	13.00	13.20	7.25	10.00	20.00
Manholes	35 each.	29.00	40.00	48.00	35.00	35.00
Lampholes	3 "	5.50	10.00	6.00	10.00	No bid.
Flush tanks	7 "	87.00	85.00	80.00	75.00	65.00
Catch Basins	64 "	23.50	45.00	64.00	35.00	38.00
Lumber in Place	5 M.	25.00	25.00	22.00	30.00	38.00
4-inch subdrain	500 ft.	.21	.25	.10	.25	.15
6- " "	100 "	.29	.34	.18	.35	.20
8- " "	100 "	.31	.45	.28	.45	.25
Totals		$22,988	$29,777	$41,580	$28.291	$28.507

*DAM.—Cody, Wyo.—Bids were received by H. N. Savage, Supervising Engr., U. S. Reclamation Service, at Billings, Mont., on July 10th, for construction of the Corbett Dam, Shoshone Project. The bids in detail were: (1) Billings Construction Co., Billings; (2) Clement & Strange, Salt Lake City; (3) Pacific Coast Construction Co., Portland, Ore.; (4) W. C. Bradbury, Denver, Colo.; (5) Francis L. Sellew, Corbett, Wyo.

BIDS RECEIVED ON JULY 10, 1906, FOR CONSTRUCTION OF CORBETT DAM, CODY, WYO.

Items.	Quantity.	(1)	(2)	(3)	(4*)	(5)
Class 1, excavation	5,500 cu. yds.	$1.05	$1.35	$0.90	$1.50	$4.00
Class 2, "	3,000 "	2.30	3.15	1.80	7.00	5.00
Class 3, "	1,500 "	4.65	4.90	6.00	10.00	6.00
Puddling	3,000 "	.30	.45	2.50	.35	2.50
Concrete	5,000 "	8.25	10.65	10.00	15.00	17.00
Placing steel reinforcing bars	250,000 lbs.	.01½	.02	.04	.03	.05
Setting gates and other metal work	40,000 "	.03	.03¼	.07	.03	.50
Total		$66,750	$87,625	$88.150	$128.100	$171.000

*Subject to condition that he be awarded Garland Canal, Division No. 1.

PAVING.—Syracuse, N. Y.—Itemized bids received on June 25 for paving Court St., from Salina St. to Third St. North, with vitrified brick or block, were as follows: F. J. Schnauber, City Engr. The bidders were: (a) F. J. Baker, Trinidad asphalt; (b) Central City Paving Co., Trinidad asphalt; (c) Warner-Quinlan Co., Trinidad asphalt or Syracuse block; (d) C. J. Sullivan, Shawmut brick; (e) Nichols Marnell, Syracuse block:

BIDS RECEIVED ON JUNE 25, 1906, AT SYRACUSE, N. Y., FOR PAVING COURT ST.

Items.	Quantity.	(a)	(b)	(c)	(d)	(e)
Excavation	7,100 cu. yds.	$0.35	$0.35	$0.40	$0.40	$0.40
Vitrified brick or block	6,872 sq. yds.	1.85	1.85	1.90	2.00	1.95
Curbing	6,410 lin. ft.	.75	.70	.70	.85	.78
Protected curb or headers	425 "	.30	.35	.35	.35	.45
Drain tile	6,410 "	.04	.03	.03	.03	.05
Catch basins, Sketch "D"	11	75.00	70.00	75.00	60.00	80.00
10" sewer pipe laid	700 lin. ft.	.60	.45	.60	.45	.50
Vit. brick or block in R. R. strip	5,860 sq. yds.	2.20	2.10	2.20	2.26	2.30
Track inlets	6	25.00	20.00	30.00	23.00	25.00
Catch basin, Sketch "B"	8	32.50	30.00	50.00	65.00	25.00
8" sewer pipe	60 lin. ft.	.50	.45	.50	.30	.45
15" " "	675 "	.95	1.00	1.00	.70	1.05
12" " "	200 "	.95	.95	1.00	.55	.90
Asphalt sheet pavement	6,872 sq. yds.	1.83	1.82	1.85	.....	.....
Total asphalt pavement		$35,485	$34,288	$35,803	.....	.....
Total block pavement		36,091	34,669	36,347	$37,459	$38,312

BUTTERFLY DAM.—Lockport, Ill.—Itemized bids are here given for construction and completion of an emergency butterfly dam in main channel of Sanitary District of Chicago, for the water power development of the Sanitary District of Chicago, near Lockport, Ill. Bids were received on July 18. (1) Strobel Steel Construction Co., Chicago; (2) Chicago Bridge & Iron Works, Chicago: Total bid: (1) $200,891; (2) $205,445.

CIVIL SERVICE EXAMINATIONS

ASSISTANT CIVIL ENGINEER, LEVELER AND MARINE ENGINEER.—Albany, N. Y.—The State Civil Service Commission announces an examination to be held Aug. 18 for the positions of assistant civil engineer, salary $5 to $6 a day; leveler, $4.50 to $5 a day, and marine engineer, $840 to $1,5000 a yr. The last day for filing applications is Aug. 13. Charles S. Fowler is Ch. Examiner. (Advertised Engineering News.)

SUBINSPECTOR AND FOREMAN LABORER.—North Chicago, Ill.—An examination of applicants will be held at the Federal Building, Chicago, Ill., Aug. 2, 1906, or as soon thereafter as practicable, for filling the positions of subinspector and foreman laborer, at the U. S. Naval Training Stations, North Chicago, Ill. Salaries, $1,500 a year and $1,200 a year, respectively. Applications will be addressed to the "Commandant, Naval Training Station, North Chicago, Ill.," and must be delivered to him on or before Tuesday, July 31, 1906. No application received after that date will be considered. Charles J. Bonaparte is Secy. of Navy.

TRADE PUBLICATIONS.

STEEL CONSTRUCTION.—Russel Wheel & Foundry Co., Detroit, Mich. Catalogue No. 22. Paper; 9 × 6 ins.; pp. 52; illustrated.

This pamphlet consists mainly of illustrations of plants erected, bridges built and other work done by the Russel Wheel & Foundry Co. A few pages are devoted to tables, showing safe loads uniformly distributed for standard and special I-beams, channels, angles, bearing plates and cast-iron separators.

ELECTRICAL MACHINERY.—The Portland Co., Portland, Me. Four pamphlets. Paper; 7½ × 9½ ins.; illustrated.

Bulletin No. 12 illustrates the Portland Co. standard direct-connected electric passenger winding machine and improved electric controller; it contains also brief descriptions of these and of the complete elevator installation.

Bulletin No. 19 similarly describes and illustrates the Portland Co. electric freight elevator.

Bulletin No. 20 gives descriptions and specifications of one, two and three drum electric hoists.

Bulletin No. 24 is mainly devoted to electric generating sets for marine and stationary purposes.

ELECTRICAL CONTROLLING APPARATUS.—The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Twelve bulletins; paper; illustrated.

Bulletin No. 10 supersedes page No. 10 G-3 of January, 1904, and describes the C. & H. multiple-switch starter front and starting rheostat.

Bulletins Nos. 13 and 17, superseding pages Nos. 13 and 17 of October, 1901, contain descriptions, with list prices, of the C. & H. motor-starting rheostat and double level motor-starting rheostat.

Bulletin No. 32, superseding page No. 32C, of November, 1903, gives drilling dimensions of C. & H. field regulators.

Bulletins Nos. 59, 59A, 59C, 59G, superseding corresponding pages of August, 1905, give descriptions and list prices of radial arm reversible controllers.

Bulletin Nos. 70C-1 and 70C-3, superseding corresponding pages of January, 1904, describe C. & H. self-starters.

Bulletins Nos. 92 and 92A-1, superseding corresponding pages of April, 1904, contain specifications and list prices of the C. & H. simplicity type, interlocking dimmers.

ELECTRICAL SUPPLIES.—Metropolitan Engineering Co., New York City. Paper; 6 × 9 ins.; pp. 8; illustrated.

This bulletin, No. 7 of Vol. 2, contains miscellaneous news notes referring to the business of the Metropolitan Engineering Co., with particular reference to electric signs.

FIRE ESCAPES AND EXTINGUISHERS.—The Harris Safety Co., Broadway and 26th St., New York City. Three pamphlets. Paper; one 7 × 9 ins.; two 3 × 6½ ins.; illustrated.

The national system of fire escapes, an arrangement of short flights of stairs with intermediate landings, all enclosed with wire or iron railings, is made in four standard models. The pamphlet contains descriptions and illustrations of these, together with testimonial letters and a list of buildings that have been equipped.

The two smaller pamphlets describe the Harris steel cable fire escape and the Harris fire extinguishers.

PUMPING MACHINERY.—American Steam Pump Co., Battle Creek, Mich. Two pamphlets. Paper; 6½ × 7½ ins. and 3½ × 6 ins.; pp. 32 and 16; illustrated.

Marsh boiler feed pumps are of the simplex type; they range in capacity from 400 to 3,500 HP. The pamphlet contains explanation of these and directions for their operation; also a table showing capacities in gallons of pumps operated at various piston speeds.

Marsh deep well engines and pump cylinders are described in the second pamphlet. Dimensions, weights and prices are given, and a question blank appended in case further information is required.

ELECTRICAL APPARATUS.—General Electric Co., Schenectady, N. Y. Eleven bulletins; paper; five 8 × 10½ ins.; four 5¼ × 7¾ ins.; one 3½ × 6¼ ins.; one 4 × 6 ins.; illustrated.

Bulletin No. 4441 supersedes Bulletin No. 4400; it describes type H subway transformers of a capacity from 5 to 200 KW., and primary cut-outs for use with them.

Bulletin No. 4442 describes the GE-87 railway motor. It contains tables of weights and gear ratios and characteristic curves, showing the corresponding speed efficiency and tractive effort of the motor; line cuts giving dimensions are appended.

Bulletin No. 4444 is devoted to direct current motor-driven air compressors of the geared type; general dimensions, weights, speeds and capacities are shown in an accompanying table.

Bulletin No. 4445 contains a description of direct current Curtis steam turbine generators of the horizontal type. They are built in sizes of 15, 20, 25, 75, 150 and 300 KW. capacity and can be arranged for either non-condensing or condensing operation.

Bulletin No. 4448 is devoted to small polyphase motors of sizes up to 7½ HP. The rotor used is of the squirrel cage short circuited type.

Bulletin No. 2189 explains the uses of Edison reflector lamps for show window and ceiling illumination, etc.

Supply Catalogue No. 7598 lists with prices the parts of plain type carbon feed enclosed arc lamps.

Price List No. 5152 comprises Gem regular incandescent units and Gem Meridian units.

Flyer No. 2185 gives illustration and price of the G. E. molding rosette.

In Flyer No. 2190 cast grid field rheostats, type F, form S, for 60 and 125 volt circuits are described.

A change notice to accompany catalogue No. 1052 records a number of changes in prices.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 34.

DEPARTMENT OF THE INTERIOR, Washington, D. C., July 24, 1906.—Sealed proposals will be received at the office of the United States Reclamation Service, Portland, Oregon, until 3 o'clock p. m., September 18, 1906, for furnishing 27,000 barrels, more or less, of Portland cement, f. o. b. cars at manufacturer's shipping point. Particulars may be obtained by application to the Chief Engineer of the Reclamation Service, Washington, D. C., or to the Supervising Engineer, 351 Washington St., Portland, Oregon. THOS. RYAN, Acting Secretary. 4-3t

PROPOSALS FOR SCREENING BUILDINGS.—Quartermaster's Office, Fort Oglethorpe, Ga., July 26, 1906.—Sealed proposals, in triplicate, will be received here until 11 a. m., August 25, 1906, and then opened, for screen doors and windows in buildings at this Post. Specifications furnished upon application. Envelopes containing proposals should be marked "Proposals for Screening Buildings," addressed to H. D. BERKELEY, Captain and Quartermaster. 4-4t

PRELIMINARY FILTER.

Wilmington, Del.

Sealed proposals for constructing and erecting a Preliminary Filter, Reservoir, and House, for the City of Wilmington, and endorsed "Proposals for Preliminary Filter," will be received at the office of the Water Department, southeast corner Sixth and King Streets, Wilmington, Del., until 1.30 p. m., on Monday, August 13th, 1906, and will be publicly opened and read at that time.

The Board of Water Commissioners reserves the right to accept any bids or to reject any or all bids, should it deem it to be for the best interests of the city of Wilmington to do so.

Plans and specifications may be seen and forms of proposals and contracts may be obtained at the office of the Chief Engineer of the Water Department, southeast corner of Sixth and King Streets, Wilmington, Del. Copies of the plans and specifications may be obtained upon making a deposit of $20, said deposit to be returned upon return of the plans and specifications.

Each proposal must be accompanied by a certified check for $5,000.00. 4-2t

THEODORE A. LEISEN,
Chief Engineer.

DEPARTMENT OF THE INTERIOR, Washington, D. C., July 24, 1906.—Sealed proposals will be received at the office of the Supervising Engineer, United States Reclamation Service, Portland, Oregon, until 3 o'clock p. m., September 1, 1906, for the following works: Storage works near Conconully, Washington, including about 155,000 cubic yards of earth excavation, 4,000 cubic yards of rock excavation, 160 feet of tunnel, 1,600 cubic yards of concrete. Particulars may be obtained at the office of the U. S. Reclamation Service, at Washington, D. C., Portland, Oregon, and Pogue, Washington. THOS. RYAN, Acting Secretary. 4-4t

DEPARTMENT OF THE INTERIOR, Washington, D. C., July 24, 1906.—Sealed proposals will be received at the office of the Supervising Engineer, United States Reclamation Service, Portland, Oregon, until 3 o'clock p. m., September 17, 1906, for building the Cold Springs Dam, near Hermiston, Oregon, including about 694,000 cubic yards of earth and gravel excavation, about 3,100 cubic yards of rock excavation, about 3,110 cubic yards of concrete, and about 35,000 cubic yards of riprap and rock fill. Particulars may be obtained at the offices of the U. S. Reclamation Service at Washington, D. C., Portland, Oregon, and Hermiston, Oregon. THOS. RYAN, Acting Secretary. 4-4t

Situations Wanted

Civil Engineers.

COOPER UNION STUDENT, having 5 years' experience at drafting and 6 months at surveying, seeks position. Address "R. A. 4," Engineering News, New York. 4-1t

GRADUATE ENGINEER, 4 years' experience in building, design and construction, knowledge of costs, desires responsible position with construction company. Address "P. A. 4," Engineering News, New York. 4-1t

CIVIL ENGINEER, 31, 7 years' experience in railway and highway location and construction and general engineering, wants position; field or office; locality no object. Address "S. B. 4," Engineering News, New York. 4-1t

Draftsmen.

DRAFTSMAN, age 24, with 8 years' experience in railroad, field and mechanical work, desires position, preferably in Southwest. Address "M. A. 4," Engineering News, New York. 4-1t

Superintendents, Misc., etc.

WANTED.—Position as superintendent with contracting or railroad company; 18 years' experience on construction work; had 1,200 men under my supervision past summer; thoroughly understand rock and tunnel work, concrete, reinforced, reservoir, foundations, conduits, track and overhead wire work and the operating of a trolley road. Address "W. B. 4," Engineering News, New York. 4-1t

ASSISTANT SUPERINTENDENT, timekeeper and general clerk of works desires position with contracting firm; location New York or vicinity; 5 years' experience in handling men, keeping daily reports, computing cost of work, etc.; can use transit and level for laying out work; at present engaged as head timekeeper, but will be shortly disengaged; experience industrial plants, buildings, concrete, reinforced concrete structures and drainage work; excellent references; salary $20 week. Address "O. A. 4," Engineering News, New York. 4-2t

Miscellaneous Wants

AGENCIES WANTED for machinery and appliances for Pittsburg, Pa., and district; steam, electrical and mining. Address "A. B. 4," Engineering News, New York. 4-2t

CONTRACTOR (C. E.), 15 years' experience, hustler with exceptional executive ability in economically handling and rushing contract work, desires uniting and investing capital with construction company for larger field; built railroads, bridges, heavy foundations, buildings, sewers, waterworks, etc. Address P. O. Box 204, Madison Square, New York. 4-tf

PARTNER WANTED.—Young civil engineer to join college graduate in engineering and contracting; office already established and large contracts just closing; must be congenial and aggressive, have sufficient funds to pay one-half expenses; command of additional capital desirable; location, large city. Address "Z. B. 4," Engineering News, New York. 4-3t

WANTED

A Clam Shell Bucket Dredge

of three to five cubic yards capacity, either to buy or charter.

HENRY STEERS, Inc.
17 Battery Place 4-1t New York

Situations Open

WANTED.—Draftsman for detailing masonry and general office work; state age, education, experience, salary wanted. Address Box 33, Jeffersonville, Ind. 4-1t

ASSISTANT DRAFTSMAN for general railroad drafting, mapping, etc.; state experience, sending sample drawing; salary $75. Room 23, C. & O. Ry. General Offices, Richmond, Virginia. 4-1t

WANTED.—Young man with technical education to take charge of publication department of a large manufacturing firm of engineering instruments and tools, and to assist in catalogue work; please state previous experience, age and salary expected; permanent, advancing position for right man. Address "A. 4," Engineering News, New York. 4-1t

GOOD OPENING for permanent and energetic young engineer in established contracting firm in New York City, willing to invest some capital. Address "B. A. 4," Engineering News, New York. 4-3t

TWO INSTRUCTORS in civil engineering wanted in technical school on Atlantic Coast; salary from $900 to $1,200 per college year; applications invited from C. E. graduates of 1900-1904, with statement of experience and six words in freehand lettering. Address "Z. 4," Engineering News, New York. 4-2t

WANTED, at once, for a steady position, a civil engineer with experience to act as principal assistant to civil engineer and surveyor, competent to make property and topographical surveys, etc., familiar with road work and grades; must be a good draftsman; state age, experience and salary expected. Address Box 406, Glen Cove, L. I. 4-2t

WANTED.—Several first-class structural draftsmen; applicants please state experience and salary required. THE CANADIAN BRIDGE CO., Ltd., Walkerville, Ont. 4-2t

WANTED.—Several first-class structural and ornamental draftsmen; state references and experience and salary expected. Address "X. A. 4," Engineering News, New York. 4-1t

DRAFTSMAN WANTED, familiar with blast furnace and structural work; first-class pay and good position for a capable man; all correspondence treated confidentially. Address, stating age, experience, reference, compensation received and expected to "Z. A. 4," Engineering News, New York. 4-1t

WANTED.—Seven first-class foremen on sewer, water, asphalt and brick paving; must understand handling negro labor. Apply, with reference, "C. A. 4," Engineering News, New York. 4-1t

WANTED.—A young married man with technical and business education to take the general management of a structural steel and bridge plant of 2,000 tons capacity per year; must have satisfactory references. Address "D. A. 4," Engineering News, New York. 4-2t

WANTED.—Two good templet makers at once on bridge and building work. Apply or address NEW JERSEY BRIDGE CO., Manasquan, N. J. 4-3t

STRUCTURAL DRAFTSMEN on steel buildings wanted immediately. Call, with sample of work, on CHR. JEPPESEN, 26th St. and 11th Ave., New York. 4-1t

WANTED.—Steam engineering draftsman; must be strictly high-grade man, thoroughly up-to-date and competent to assume full responsibility for steam pipe layouts for modern, condensing, steam turbine and engine plants; salary commensurate with these requirements will be paid to the right man. Address, with references, "X. B. 4," Engineering News, New York. 4-1t

WANTED—Structural Draftsman to lay out, order and check structural steel work, by a plant within 100 miles of New York City. State age, experience, salary expected, and how long before he can report. Address "E. B. 4," Engineering News, New York. 4-1t

WANTED—A tracer for structural steel and ornamental iron; state age, experience, references and salary desired. College graduate preferred. Address "B. B. 4," Engineering News, New York. 4-1t

DRAFTSMAN wanted to check and detail in consulting steel engineer's office in New York City. State experience, age and salary expected. Permanent position to right man. Address "C. B. 4," Engineering News, New York. 4-1t

WANTED—Two instructors and one assistant in the Department of Civil Engineering of a prominent Eastern college. Address, giving full statement of experience, references and salary desired, "D. B. 4," Engineering News, New York. 4-2t

FOR SALE

FOR SALE

FACTORY SITE

12 Acres, Shore Front Long Island Sound. Opportunity for Wharves 200 foot long; also Side Track from N. Y., N. H. & H. R. R. All city conveniencies

FRANK L. COOK
4-1t Stamford, Conn.

FOR SALE

Sealed bids received at this office until August 15th, marked.

"Bids for Grader and Engine"

1 National Grader said to have capacity 1,000 cubic yards in ten hours.

1 Port Huron Traction Engine for pulling same, said to be 32 HP.

Arranged to convert into a Road Roller. Only used a few months. Located near Palmyra, N. Y., on farm of J. H. Wilkinson, about two miles from Palmyra toward Macedon.

For further particulars apply this office. Sold as and where located and by order of the Court; terms cash on bill of sale.

CALVIN E. BRODHEAD,
Receiver The John Shields Construction Co.,
4-2t 1 Madison Ave., New York.

FOR SALE.

Six 250 H. P. Babcock & Wilcox Boilers

COMPLETE.

Can be inspected where they now stand. For particulars and price, apply to

HENRY A. HITNER'S SONS,
Aramingo Ave. and Huntingdon St.,
4tf Philadelphia, Pa.

Modern Generating Set

100-KW. General Electric 6-pole, 115-volt generator, direct connected to 15 × 15 Fitchburg high-grade center-crank engine.

Price, with full guarantee, $2,250.

WICKES BROTHERS,
37-41 Farnsworth St., Boston, Mass.

FOR SALE CHEAP

Ransome Concrete Mixer

Two months old; has only mixed 800 yards. FICKLEN & STOBAUGH, 215 Montague St., Brooklyn, N. Y. 4-1t

FOR SALE.

Immediate Delivery.

Marion Improved "A" Shovel

Good Condition.

JOHN C. LOUIS, 14 Builders' Exchange,
Baltimore, Md. 4-2t

FOR SALE CHEAP

Buffalo Steel-Plate, Full Housing Steam Fan

wheel 71 x 36-in., connected to 5¼ x 7 single vertical engine. Slightly used. For particulars apply to

H. M. PAPWORTH
120 Liberty Street, New York City 4-1t

FOR SALE

CONTROLLING INTEREST or all of a profitable, well-established manufacturing business located at Pittsburg. As plant investment is small, business can be moved to suit purchaser. Manufacturing and sales organization can be retained, if desired. Capital required, $25,000 to $50,000. For further information address JOHN J. FITZGERALD, Room 1508, Park Building, Pittsburg. 4-4t

No. 4

l steel and
experience.
d. College
"B. B. 4."
4-1t

d detail in
ce in New
age and
position to
Engineer-
4-1t

e assistant
ineering of
Address,
nce, refer-
B. 4," En-
4-2t

ITE

nd Sound.
foot long;
H. & H.

ord, Conn.

office until

Engine"
ve capacity

for pulling

oad Roller.
d near Pal-
Wilkinson,
ward Mace-

this office.
by order of
sale.

D,
ruction Co.,
rk.

Boilers
w stand.
to
SONS,
ingdon St.,
delphia, Pa.

Set
ble, 115-volt
× 15 Fitch-
gine.
$2,250.
,
ston, Mass.

P
Mixer
d 800 yards.
Montague St.,
4-1t

' Shovel
Exchange.
4-2t

Housing
5½x7 single
r particulars

k City 4-4t

r all of a
anufacturing
As plant is
be moved to
r and sale
if desired.
50,000. For
JOHN J.
rk Building.
9-4t

Supplement

CONSTRUCTION
Plans and Sp
List of Cont
Railways
Electric Rail
Light and P
Bridges
Buildings
Water Supp
Sewerage
Streets and
Manufacturi
Miscellaneou
Foreign Con
Contract Pr
Engineering
PROPOSALS

C

PLANS A

The following
ding Sheets (
gineering New
York:
Bids
close.
Aug.
*2—Reservoir
4—Power pl
4—Chimney.
7—Pumping
*8—Macadam
*8—Pipe, st
*8—Dredging
9—Paving.
13—Bridge.
*13—Concrete
*15—Dredging
*17—Sewers.
*23—Grading.
*30—Boilers

*30—Canals

*30—Tunnel.
Sept.
15—Hotel

*Work ad

LIS

LIC

Bids
close.
Aug. 2. LI
Aug. 4. He
Aug. 7. Po
Aug. 10. Bo
Aug. 10. LI
Aug. 10. LI
A
Aug. 14. El
Aug. 18. Po
Aug. 22. He
Sept. 10. El
Adv
Sept. 12. T
Sept. 18. L

Aug. 2. T
Aug. 4. C
Aug. 4. E
Ad
Aug. 6. A
Aug. 6. T
Aug. 6. T
Aug. 6. C
Aug. 6. S
Aug. 6. I
Aug. 6. I
Aug. 6. I
Aug. 6. T
Aug. 6.
Aug. 7.
Aug. 7.
Aug. 7.
Aug. 7.
Aug. 7.
Aug. 8
Aug. 8
Aug. 10
Aug. 11

Aug. 13
Aug. 13
Aug. 13
Aug. 13
Aug. 13

Aug. 13

Aug. 14

Aug. 1
Aug. 2
Aug. 2
Aug. 2
No da

Aug.

Aug.
Aug
Aug.

Aug.
Aug.
Aug.
Aug.
Aug.
Aug.
Aug.
Aug.
Aug.